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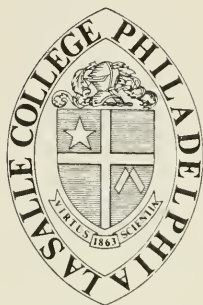
LA SALLE



COLLEGE BULLETIN • 1971



LA SALLE



COLLEGE BULLETIN 1970 • 71

A LIBERAL ARTS COLLEGE
FOR MEN AND WOMEN
CONDUCTED BY
BROTHERS OF THE CHRISTIAN SCHOOLS
PHILADELPHIA, PENNSYLVANIA

ACCREDITATION AND MEMBERSHIP

La Salle College was chartered in 1863 by the Legislature of the Commonwealth of Pennsylvania and is empowered by that authority to grant academic degrees. It is accredited with the Middle States Association of Colleges and Secondary Schools, the Pennsylvania State Department of Public Instruction, the Regents of the University of the State of New York, the American Chemical Society, and the Pennsylvania State Board of Law Examiners.

The College is a member of the American Council on Education, the Association of American Colleges, the College Entrance Examination Board, the American Association of Collegiate Registrars and Admissions Officers, the Association of College Admissions Counselors, the National Catholic Educational Association, the College and University Council of Pennsylvania, the Association of Liberal Arts Colleges of Pennsylvania for the Advancement of Teaching, the Pennsylvania Catholic Education Association, the American Library Association, the National Commission on Accrediting, the American Catholic Historical Society, the Educational Conference of the Brothers of the Christian Schools, and the National Association for Foreign Student Affairs.



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A Profile of La Salle

The Historical Side

La Salle College was founded in 1863 by a group of brothers, priests, and laymen. The nucleus for the new college was the Academy conducted by the Christian Brothers as an adjunct to St. Michael's School. Later the College moved downtown to a site in center city at Juniper and Filbert Streets. Outgrowing that location, La Salle moved north on Broad Street and began a 43 year stay at the Bouvier Mansion at 1240 North Broad Street.

In 1929, the expanding College made its last move. The new site on the edge of Germantown was part of historic Belfield Farm, once the home of American painter Charles Willson Peale. The College experienced some difficult years in its new home as first the depression then the war depleted the student population.

Just before the war ended, La Salle's enrollment was 90 students. A year later the campus was bulging with 1,200 veterans and a new chapter in La Salle's history had begun. In meeting the postwar demand for education, La Salle became virtually a new college.

A small college no more, La Salle reorganized its administrative structure in keeping with its new size. In 1946, the Evening Division was founded, meeting the needs of the metropolitan area so well that its present enrollment equals that of the Day Division. The College admitted women as full time day and resident students in 1970.

Physically, the campus has been transformed. To meet the needs of 3,000 day students and a similar number at night, the College has been building continually for the past twenty years. Additions have included a library, a College Union, seven residence halls, a Science Center, and a biological field station. A classroom building and an athletic facilities building are now under construction.

This remarkable physical growth has been matched by a comparable academic development. Studies have shown a continuing improvement in the credentials of each entering class. A thriving honors program is in operation. A \$400,000 library development program has substantially increased the library's holdings. The curriculum has been revised to provide greater flexibility and emphasis on individual effort. An exhaustive self-study conducted by the College between 1963 and 1966 analyzed past progress and present and future needs, culminating in a ten year plan for continued improvement in every facet of teaching and learning.

The Physical Side

For a city college, La Salle's campus is surprising. Tucked behind the brick facades on Olney Avenue is a pleasantly green and peaceful tract of about forty acres. Though buses stop at the door and the subway is only a few blocks away, the campus benefits from some of the country-like aspects of its site. Across 20th Street is historic Belfield, one of the few farms within the city limits. South of the campus lies Wister Woods, now a part of Fairmount Park. The result of these happy accidents of locale is that the campus retains a somewhat suburban atmosphere while losing none of the advantages of being an urban college.

La Salle is fortunate too in having ready access to the educational facilities of the Philadelphia area. "The Old Capital" contains rich cultural resources in art, music, and history. Its many libraries, museums, historic buildings, and great educational institutions offer a magnificent heritage to the student. Nearby Germantown is the site of beautiful old homes and memorable locations dating back to revolutionary times.

La Salle's century-old tradition is reflected in the collegiate Gothic spires of College Hall and Wister Hall; its commitment to the future is seen in the clean, functional lines of such buildings as the Holroyd Science Center, the College Union, and the adjoining classroom and office building now being erected.

One of the first of the newer generation of buildings is the David Leo Lawrence Memorial Library, built in 1952. The rapid growth of the collection to its present 168,000 volumes and periodical files of some 700 journals is already taxing the available space in this modern air-conditioned structure, and a new library is being planned.

The College Union, built in 1959, is the focal point of many student activities. There are concerts and lectures in the theatre, dances in the ballroom, and the inevitable college "bull sessions" in dining halls, meeting rooms, and lounges.

The residence hall complex houses some 750 men and women in pleasant and comfortable rooms and apartments.

The Human Side

More than buildings, more than books, more than lectures and examinations, education is a matter of people. It is the people who make up La Salle—the students and the teachers—who give the College its character. You may well ask, "What are they like, these people with whom I may spend my next four years?"

Most of the students come from the northeastern states, but there are representatives from 21 states and 14 foreign countries. Studies of student characteristics reveal that 75% of the students will probably pursue graduate or professional studies. A majority of them selected "to broaden intellectual

interests" when asked to identify their goal in coming to college. Such interest promotes a common bond between majors in a particular subject that often ripens into permanent friendships that are continued in alumni professional groups.

Your teachers at La Salle are Christian Brothers, priests, and lay professors. All of them share the same goal: to be of as much help to you, the student, as they can be. St. La Salle's dedication to teaching is the informing spirit of the College, and you will be conscious of this spirit in the willingness of your professors to give that extra moment of explanation or advice which can mean so much. While many of these men are engaged in their own scholarship or research, their primary focus is always the classroom and their basic obligation is to you, the student.

Making the transition between high school and college is never easy, but at La Salle you will find many people who want to help and who understand some of the problems you face perhaps better than you do yourself.

During the summer months preceding the start of classes you will be invited to participate in a counseling program. Several forms will be mailed to you to complete at home and these will become part of your personal file in the Counseling Center. Later you will come to the campus for a full day of conferences with the Counseling Center staff. At this time you will have an interview with your counselor to discuss your educational and career plans. Besides this initial counseling program, the Counseling Center offers continued diagnostic and counseling services throughout your college years. If you are unsure of your major or of your vocational plans, the staff is happy



to assist you in making a sound choice based on your own interests and capabilities. The Center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools, drugs, selective service, and a variety of occupations.

Before the beginning of classes in September, there is a special freshman workshop conducted by the Student Government. The purpose is to introduce you to some of the people, places, and attitudes you will find important to your college career. Faculty and student advisers will try to help you improve your study habits and discover what it means to think and act as a college student. Group discussions of contemporary issues in politics, education, and social responsibility will be features of the workshop. You will also have the opportunity to meet upperclassmen from various clubs and activities who will tell you what these groups can contribute to your social well-being.

Nor is your physical well-being neglected while you are on campus. A College physician is always on call, and a registered nurse is in daily attendance in the dispensary. Medical insurance is available and recommended to all students.

Throughout your college days, the Director of the Career Planning and Placement Bureau will be at your service to help you select a career and assist you in planning job campaigns. This office is sometimes able to assist students in finding part time or summer jobs related to their career goals.

All in all, you will find the human side at La Salle an important part of your education. Long after you have forgotten painfully memorized facts from a textbook or lecture, you will remember the teachers and students with whom you associated in your college years.

The Social Side

The social side of college life should be a vital part of your educational experience. In living with others, planning activities together, and sharing your ideas in hours of informal discussion you are learning much that is a desirable part of liberal education. You are learning to understand and respect differing points of view; you are learning to discover new relationships and to develop your own convictions.

An important part of college, therefore, is the opportunity to share your concerns, to test your thinking in conversations and meetings with your peers, other men and women of your age who are trying to discover themselves just as you are.

Though this kind of informal relationship with other students has deep and permanent effects and cannot by its nature be planned or organized, it is often nurtured by common interests in organized activities. A lecture, for example, by a visiting celebrity from the world of politics or literature may kindle student discussions in the Snack Bar or the residence halls. Such concerts and lectures are weekly occurrences at La Salle.

Athletics too may develop common interests among students, whether they are participants or spectators. The athletic program encourages both



intramural and intercollegiate competition. Varsity teams from La Salle have often been leaders in basketball, baseball, swimming, track, cross-country, crew, soccer, and golf.

La Salle's reputation for excellence in drama has been built by the many fine productions of the Masque and the La Salle College Music Theatre, which has earned acclaim for its summer musicals. The beginning of a new speech and drama curriculum and plans for a year-round season of plays in the College theatre promise that theatre will continue to be an important part of the social side of La Salle.

The Academic Side

"The only privilege a student had that was worth his claiming," wrote Henry Adams, "was that of talking to the professor, and the professor was bound to encourage it." La Salle professors do encourage it, and classes are small enough to permit discussion and personal relationships with your teachers.

The result is an academic environment where learning and intellectual development are nourished. In more concrete terms, the result is the gratifyingly high number of prestige awards won by La Salle graduates.

The presence at La Salle of good teachers, a fine library, and uncrowded classes are all helpful to your academic success, but the actual achievement of your academic goals is ultimately up to you.

The most important adjustment to collegiate life you will have to make is in learning to budget your time wisely. No one will force you to learn; no

one can. Instead, you will be treated as a mature, intelligent person. You will be given assigned readings, papers, and projects in research to be turned in by a certain date. You yourself must plan when these assignments will be done; you yourself must bear the responsibility for meeting standards set by your instructors.

The standards for academic achievement are treated in some detail in the reference section of this catalog and need not be discussed here. The important thing for you to realize about the academic side of your college life is that it is the central test of your maturity and sense of responsibility. Learning is sometimes hard work, but it is the most rewarding kind of effort, not only in grades but in the self-satisfaction of having met a difficult challenge successfully.

But the academic side of college is not just a bleak picture of challenges, responsibilities, and standards. The academic side really offers one of the deepest, most lasting joys a man can experience—the joy of understanding.

Suddenly some part of human experience fits into a pattern for you; suddenly you understand why. The best part of the joy of understanding is that it is endless. The deeper your understanding goes, the deeper the satisfaction you experience.

Perhaps you haven't yet discovered this kind of joy; you may even doubt that it exists. Yet when you first experience it, you will begin to understand what education is all about and why many men willingly devote their lives to study and research.

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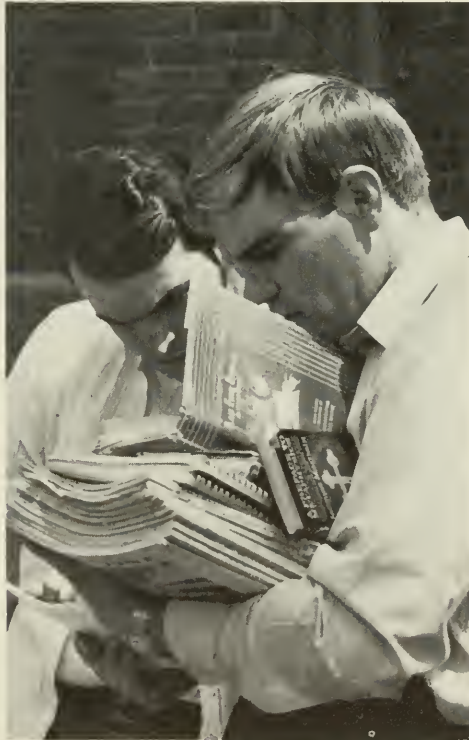
The Philosophical Side

La Salle College is a group of buildings—brick, marble, limestone—situated on a hill overlooking Wister Woods. But it is also a great deal more. It is the embodiment of two great educational traditions: the American tradition of educating men in the foundations and spirit of democracy and the roots of western civilization, and the La Sallian tradition of dedicated teaching and concern for the individual, dating back to St. John Baptist de La Salle, founder of the Christian Brothers.

In the light of these traditions, La Salle offers students an education founded on the idea that man's intellectual and spiritual development go hand in hand, complementing and fulfilling one another. The basic purpose of the College is a free search for truth and the development of materials and skills necessary for the search; its religious concern is an extension of that purpose. In a company of mature teachers and scholars, the College urges the student to confront the ultimate questions of human experience: who he is; where his destiny lies; how he is to reach it.

La Salle is committed to a liberal education of both general and specialized studies. It wants its students to liberate themselves from narrow interests and prejudices and to learn to observe reality with precision, judge events and opinions critically, think logically, communicate effectively, and sharpen esthetic perception. The curriculum involves a body of knowledge about the universe; about man—his nature, behavior, and values; about God. It also provides an opportunity to gain specialized knowledge in one field of learning as a preparation for graduate study or entry into professional life. Beyond this breadth and depth of knowledge, the College encourages its students to seek wisdom, that is, to grasp those basic principles which can give order to particular facts.

As a private Catholic college, La Salle pursues these aims in a religiously diverse community of teachers and students interested in studying secular subjects in their autonomy, undertaking theological study in a systematic way, and investigating what interrelations these subjects may have. The community also engages in programs in which the students' personal, social, and religious values may take root and in which the students may grow in mature attitudes and behavior in all human relationships. The ultimate hope of the College is that its graduates will be ready for informed service and progressive leadership in their communities and will be able to fulfill the immediate and final goals of their lives.





General Reference

Qualifications for Admission

If you are well-motivated toward a college career and can show evidence of high academic achievement and ability, there is a good chance that the Admissions Committee will look with favor upon your application. In arriving at its decision, the Committee studies your high school record and the scores of your College Entrance Examination Board tests, together with recommendations from your high school faculty, guidance counselor, and principal. The following are the specific requirements for admission:

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HIGH SCHOOL UNITS

Your record should show successful completion of at least 16 units of high school work including the following:

English	4 units
Mathematics:	
Algebra & Plane Geometry or two years of Algebra	2 units
History	1 unit
Natural Science	1 unit
Foreign Language	2 units
	<hr/>
	10 units

The remaining six units may be distributed as follows:

1. Applicants for the *Liberal Arts* program may present six other units in academic subjects.
2. Applicants for the *Science and Mathematics* program may present six other units in academic subjects but including an additional unit in algebra and one-half unit in trigonometry.
3. Applicants for the *School of Business Administration* may present six academic or commercial units, excluding typing.

LANGUAGE REQUIREMENTS

All applicants should present two units in the same foreign language.

ADDITIONAL REQUIREMENTS

Applicants to the freshman class are required to take both the morning and afternoon tests given by the College Entrance Examination Board:

Morning Program—Scholastic Aptitude Test

Afternoon Program—

1. English Composition
2. Mathematics
 - a. Level I (Standard)
 - b. Level II (Intensive)
3. Foreign Language (to be taken by those who wish to continue the study of the language in college)

The results of the morning tests are used to determine your qualifications for admission; results of the English Achievement Test are used to supplement secondary school records and other test scores. These and the remaining required achievement tests are also used for placement in course programs.

Applicants for the fall term should take the morning tests in November, December, or January. The tests are also administered in March, May, and July, but these may be too late for those who wish to apply for the following fall term.

If you plan to live on campus, you are advised to take the College Board Scholastic Aptitude Test no later than January of your senior year.

The English Composition Achievement Test should be taken no later than January of the senior year.

The required Mathematics and Foreign Language tests may be taken on the same date, or postponed no later than the May testing date.

Four to six weeks before the date of the tests, you should write to:

The Educational Testing Service
Box 592, Princeton, New Jersey 08540
or Box 1025, Berkeley, California 94701.

Arrangements may also be made through the principal or guidance counselor of your high school.

You should request the testing service to forward test scores to the Office of Admissions, La Salle College, Philadelphia, Penna. 19141. The College Board (CEEB) and the College Scholarship Service (CSS) code number assigned to La Salle College is 2363.

APPLYING FOR ADMISSION

You may secure an application form from the Office of Admissions. When you receive this, you will also receive another form which is to be mailed directly to the College by your high school principal. Send your completed application and the \$15.00 application fee to the Office of Admissions; the Director of Admissions will notify you as soon as possible after a decision has been made on your application. If accepted, you are asked to send along a \$100.00 deposit with your confirmation. Seventy-five dollars of this will be credited toward your tuition when you register and attend, but will be forfeited if you do not. The remaining \$25.00 is for counseling service provided by the Counseling Center throughout the time you are at La Salle, including the pre-college counseling program which is required of all new students. The confirmation deposit is required of all new students to the Day Division including transfers from other colleges.

ACCOMMODATIONS FOR RESIDENTS

If you live beyond commuting distance and are unable to live at home or with relatives close to the campus, you will live in the College residence halls. After indicating on your application your intention to live on campus, you should reserve your room when you confirm your acceptance with the required residence hall deposit.

Half of the \$50.00 deposit on acceptance is credited to your damage deposit account; the remaining \$25.00 is credited to your room and board fee. Loss or damage of residence hall equipment as a result of negligence or improper use will be charged against this damage deposit. Should you decide not to occupy the room you have reserved, the entire advance deposit is forfeited.

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The residence halls are attractively furnished with all necessary furniture and bed linens. You supply your own blankets and personal linens. You must also take care of personal laundry, dry cleaning and pressing. Many of the personal items needed, such as toilet articles, laundry cases, towels, and sportswear may be purchased at the Campus Store.

Occupancy may begin the day before registration and continue until the day after the final examination. All residence halls are closed during Christmas and Easter vacation. Residents are permitted cars on campus.

When you live on campus, your meals are served cafeteria-style in the College Union dining halls. Since meals must be planned on the basis of total participation by the resident community, no adjustment in fees can be expected for meals not taken on campus. Special diets for medical reasons may be arranged through the Director of Food Services. The dining halls are not open during school recesses at Thanksgiving, Christmas, Easter, or between semesters.

Each residence hall has several public phones. Calls for residents should not come through the College switchboard.

Recreation for residents includes a variety of sports, the games facilities of the Club Room, a fine films program, and a number of dances and social events.

EARLY ACCEPTANCE PLAN FOR HIGH SCHOOL JUNIORS

The Committee on Admissions will consider a qualified applicant for an early acceptance one year before graduation from a secondary school. The following credentials are required for this evaluation:

1. A completed application to La Salle College.
2. A transcript of three year high school scholastic and personality records.
3. The results of the College Board Scholastic Aptitude Test taken during the junior year or the following summer.

The successful early applicant must finish the senior year of high school with creditable grades, receive his diploma, and take the required College Board Achievement tests for placement in his chosen course programs.

ADVANCED PLACEMENT PROGRAM

La Salle College participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the College agrees to give credit and/or advanced placement to students who perform satisfactorily both in college-level courses taken in secondary school and in the advanced placement examinations administered by the Board. The equivalents for the grading scale are:

- 5 or 4 = Advanced credit and advanced placement
- 3 = Same, on recommendation of departmental head
- 2 = Advanced placement only on recommendation
- 1 = No advanced placement or advanced credit

TRANSFER STUDENTS

Each year a limited number of transfer students will be admitted. The number is limited by available space and academic restrictions. Candidates for admission from colleges which offer courses of study similar to those of La Salle College should submit a transcript of high school work and college work as soon after applying for admission as is possible. All transfer students are required to submit the results of College Entrance Examination Board tests. A letter of appraisal from the Dean of Students of the college or university attended is also required.

All of these records should be in the Admissions Office at least 60 days before the beginning of the semester for which the student is applying.

The previous college record of the applicant must indicate good academic standing. No applicant will be accepted whose transcript indicates academic or disciplinary probation or dismissal.

A student applying for transfer from a fully accredited college or university should have a grade point average of 2.25 or higher (on a 4.00 scale). Transfer applicants from colleges which have applied for regional accreditation will be considered if their grade point average is 2.75 or higher (on a 4.00 scale).

No credit is allowed for courses offered with the lowest passing grade given at the institution from which the applicant is transferring.

A transfer student may be required to make up certain courses which belong to the sequence required in the program of studies for which he is applying. End of course examinations may be required to obtain credit in some areas.

La Salle College participates in the College-Level Examination Program of the College Entrance Examination Board. Qualified transfer students and others with advanced preparation who wish to be considered for advanced credit through this program should write for information to the College-Level Examination Program, Educational Testing Service, Box 977, Princeton, N. J. 08540.

No student admitted to advanced standing will be permitted to graduate unless he has completed his senior year as a full time student at La Salle College.

REGISTRATION

Registration takes place during the week before classes begin in September. You will receive notice and complete instructions ahead of time. For students already in attendance, there is a pre-registration period for the following year during the spring semester. When pre-registering, the student should keep in mind the fact that certain courses, especially in English and languages, are offered in alternate years. Information about specific course offerings may be obtained from course advisers or from the dean of your school. Students who register or pre-register late must pay a penalty fee of \$10.00.



Expenses

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The College has traditionally struggled to prevent the rising cost of education from depriving worthy students of attendance. A number of scholarships are offered, part time campus jobs are available, and a flexible bank loan plan has been instituted to make it possible to meet expenses in a series of regular payments.

	Liberal Arts and Business Administration	Science
Tuition (including all regular College fees)*	\$1,600.00	\$1,700.00
Counseling Service Fee (for new students only)†	25.00	25.00
Approximate cost of new books and supplies	75.00	75.00
Annual total for commuting students	<u>\$1,700.00</u>	<u>\$1,800.00</u>

Annual room and board for on-campus residents

(7 day meal tickets)**	\$1,050.00
(5 day meal tickets)	900.00

* The tuition charge for part time students or for hours taken in excess of normal schedule is \$50.00 a semester credit hour.

† Deducted from Confirmation of Acceptance Deposit.

** Freshmen pay \$1,080.00 to cover the extra orientation week.

There are no additional fees for matriculation; registration; use of laboratories, library, athletic facilities, or dispensary services; participation in student activities; the student newspaper; or the student identification card for admission to athletic events. However, in the face of rising costs, La Salle College must reserve the right to amend or add to the charges at any time

and to make such changes applicable to students presently enrolled as well as to new students.

METHOD OF PAYMENT

One-half of the annual tuition and the room and board costs must be paid on registration day in September and January. The sum may be paid in cash, or, preferably, by check or money order.

If you wish to extend payments throughout the year, you may do so by participating in the College Bank Loan Program offered by La Salle in collaboration with a Philadelphia bank. Further information on the Bank Loan Plan is available from the Business Office of the College.

PENALTY FEES

The penalty fees as outlined below are to defray the expenses involved and to discourage indifference toward regulations.

Late Registration Fee: Students are required to complete their course registration within the period set forth in the College Calendar. Late registration is permitted only in the most unusual circumstances and requires the permission of the dean of the school and the payment of a fee of \$10.00. Students who pre-register late are liable to the same penalty.

Change of Roster Fee: A change of roster will be permitted only with the permission of the dean of the school and the payment of a fee of \$5.00. The second day of class is the last date for changes.

Delayed Examination Fee: Students are expected to take their final examinations during the regular examination period. Final examinations taken beyond the regular examination period require the permission of the dean of the school and the payment of a fee of \$5.00 for each examination.

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GRADUATION FEE

A graduation fee of \$35.00 is due and payable on or before the fifteenth of May preceding the candidate's graduation. The College cannot be responsible for the inclusion in the graduation program of any candidate who pays fees after this date. The graduation fee covers the yearbook, the Senior-Faculty Reception, baccalaureate services, the cost of the diploma, the use of cap and gown, and all other expenses incidental to the commencement exercises. No candidate may be recommended for a degree, diploma, or certificate until the graduation fee and all other financial obligations have been paid.

REFUND OR REMISSION OF TUITION

Under certain circumstances, the student who withdraws before the end of a semester may receive a refund or a remission of part of the unpaid balance of his tuition fee. Complete information on terms and conditions may be obtained from the Business Office.

Scholarships and Financial Assistance

No student is denied admission because of financial need. The financial aid program at La Salle College provides opportunities for scholarships, grants, loans, and student employment. Applicants for financial aid will be considered for any form or combination of forms of assistance.

Since the primary responsibility for college expenses rests with the parents and student, financial assistance is normally granted on the basis of financial need together with demonstrated and potential academic achievement. La Salle College participates in the College Scholarship Service. Candidates seeking financial assistance are required to submit a Parents' Confidential Statement to the Service. Forms are available at the guidance office of the secondary school or from the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540.

COMPETITIVE SCHOLARSHIPS

Thirty tuition scholarships are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. These awards are renewed annually for the remaining three years provided the recipient maintains a 3.0 (B) average. Application forms for these competitive scholarships may be obtained from the Director of Financial Aid. The completed forms must be received by La Salle College no later than February 1st. The applicant must arrange to take the tests of the College Entrance Examination Board in Scholastic Aptitude and the English Composition Achievement Test (not the writing sample) no later than the January testing date. Arrangements for the tests must be made directly with the College Entrance Examination Board, Princeton, New Jersey. Applicants must request the Board to send results to the Admissions Office, La Salle College, Philadelphia, Pennsylvania 19141.

LA SALLE COLLEGE PRINCIPALS' SCHOLARSHIPS

La Salle College offers fifteen scholarships to students graduating from all Catholic high schools in the Camden and Philadelphia dioceses and from high schools conducted by Christian Brothers of the Baltimore province. Competition is based on academic excellence and extracurricular activities and is restricted to students nominated by their high school principal. Principals' scholarship application forms will be sent directly to nominees designated by the principals.

NATIONAL MERIT SCHOLARSHIPS

La Salle College sponsors four National Merit Scholarships annually. To be eligible for one of these scholarships, a student must take the regular Na-

tional Merit Scholarship Test and indicate his intention of attending La Salle College. These scholarships are administered by the National Merit Scholarship Corporation; it uses the regular procedures of its national competition and assigns the amount of the award based on need with a maximum of \$1,500.00 each year for four years.

ARMY ROTC SCHOLARSHIPS

The Department of the Army sponsors one- two- three- and four-year scholarships to incoming freshmen and to upperclassmen in the ROTC program. Each scholarship provides free tuition, textbooks and laboratory fees, and carries a \$50.00 monthly stipend.

Application for four-year scholarships must be submitted by high school seniors before January 15. Requests for applications should be addressed to Commanding General, First United States Army, ATTN: AHAAG-CE, Fort Meade, Maryland 20755. It is advisable to write for and obtain an application as early as October of the senior year.

Recipients of one- two- and three-year ROTC scholarships are chosen on a competitive basis from among students in the La Salle ROTC program who must apply directly to the Professor of Military Science at La Salle.

LAW ENFORCEMENT EDUCATION PROGRAM

This federal assistance program is designed to help improve the nation's criminal justice system—police, courts, and corrections—by enhancing the quality of criminal justice personnel through opportunities for higher education.

Loans as well as grants are available to students at La Salle College enrolled in a program of study directly related to law enforcement.

For further information and applications, contact the Director of Financial Aid, La Salle College.

SCHOLARSHIPS FROM OTHER SOURCES

Some scholarships and grants are made available annually by agencies in the Philadelphia and neighboring communities to students entering the College or to upperclassmen already in attendance.



Information about off-campus grants frequently held by La Salle students which involve competition or appointment can be obtained from the following:

1. Pennsylvania State Scholarships, Pennsylvania Higher Education Assistance Agency, Towne House, Harrisburg, Pennsylvania 17102.
2. New Jersey State Scholarship, Department of Education, Box 1293, Trenton, New Jersey 08625.
3. Food Fair Stores Scholarships, The Food Fair Foundation, Food Fair Building, 3175 John F. Kennedy Blvd., Philadelphia, Pennsylvania 19104.
4. The Martin de Porres Scholarship, M. H. McCloskey, III, Martin de Porres Foundation, 2050 Suburban Station Building, Philadelphia, Pennsylvania 19103.
5. The City Scholarship Committee, Commission on Higher Education, 516 City Hall Annex, Philadelphia, Pennsylvania 19107.
6. The Hero's Scholarship, City of Philadelphia, Room 490, City Hall, Philadelphia, Pennsylvania 19107.
7. Bulletin Scholarship Foundation, Bulletin Building, Philadelphia, Pennsylvania 19101.
8. J. Wood Platt Caddie Scholarship, c/o Cecil J. Barnett, Esq., 29 Bala Avenue, Bala-Cynwyd, Pennsylvania 19004.

LOANS AND EMPLOYMENT OPPORTUNITIES

La Salle College participates in the loan program as established by the National Defense Education Act. Students who demonstrate financial need are eligible for consideration for long term loans under the provisions of the act. All loans are offered to meet educational expenses only and are granted on the same basis as all other financial aid.

In addition, the Guaranteed Loan Program, which is similar to the National Defense Student Loan Program, was authorized by the Higher Education Act of 1965. Under this program, the student borrows directly from a bank or other financial institution, instead of through the College. Students desiring further information on this program should direct their inquiry to the Director of Financial Aid.

La Salle College also participates in the Federal College Work-Study Program. A number of on-campus jobs are available on a part time basis. Applications may be obtained from the Financial Aid Office. Care is taken to insure that this activity does not interfere with the student's academic and extracurricular life.

EDUCATIONAL OPPORTUNITY GRANTS

The Educational Opportunity Grant program was established by the Higher Education Act of 1965. Its purpose is to provide grants to students of exceptional financial need who, for the lack of financial means of their own or of

their families, would be unable to enter or remain in college without such assistance.

Applications are available from the Office of Financial Aid, La Salle College.

PROCEDURES FOR APPLYING FOR FINANCIAL ASSISTANCE

A candidate who desires financial assistance must submit the Parents' Confidential Statement to the College Scholarship Service. The College Scholarship Service will send the appropriate analysis to La Salle College.

The Parents' Confidential Statement should be filed no later than January 15. Applications received after that date will be considered only if there are funds available.

Financial aid awards will be announced at the time of the offer of admission or as soon thereafter as possible.

Most types of financial aid require annual re-application. All applications for renewal must be filed with the Financial Aid Office prior to April 15 of each succeeding year.

La Salle College's financial aid program is organized to help the able student who needs financial assistance. As long as the student continues to demonstrate academic progress as well as financial need, the College will make every effort to assist him.

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Academic Programs and Procedures

THE CORE CURRICULUM

The College requires all students to pursue a common core of liberal arts courses, including three courses in theology, four in philosophy, four in English, and two in history or social science. Other courses in language, fine arts, and psychology are also required in certain programs.

The major programs listed alphabetically on pages 36 to 115 indicate the courses required for a degree in each field. The options or electives permitted within each program are explained below:

Mathematics or Science Option: Mathematics or one of the following: Biology 117-118, Chemistry 101-102, or Earth Science 101-102 or 103-104.

Social Science Elective: Economics 111-112, Political Science 101-103, or Sociology 101-103.

Fine Arts Elective: Normally, Music 205 or Art 205; in certain cases, advanced courses are permitted.

Theology Electives: All students take nine hours of theology. Freshmen may choose from Area A, sophomores from Area B, and juniors from Area C. Students who are not Catholics have the following additional options: English 433, Philosophy 400 or 410, History 371-372.

Philosophy Elective: Any philosophy course numbered from 400 to 414.

LOWER DIVISION REQUIREMENTS

To qualify for admission to the upper division, the student must complete the work of the lower division with a minimum of sixty semester credit hours and a scholastic index of 1.75. Furthermore, he must make grades of C or better in those courses which are prerequisites for the advanced work in his chosen field of concentration. Under certain circumstances a student may be permitted to change from one lower division program to another when his record indicates that he may profit by such a change. Permission must be obtained from the dean.

UPPER DIVISION REQUIREMENTS

The general requirements of the upper division curricula are the successful completion of all courses specified for the core curriculum and the required courses in the major field as outlined by each department, including all free electives permitted.

CLASSIFICATION OF STUDENTS

A full time student carries a *minimum* of twelve semester hours, although normal progress toward a degree requires an average of fifteen hours a week. A student's program will require more hours per week in some areas of instruction, as indicated later in this catalog.

Explained in simplest form, a semester credit hour is equal to one lecture hour or two laboratory hours a week. If a course meets for three lectures weekly for a semester, it is said to be a three credit course. Fifteen weeks make one semester.

Part time students carry a roster of less than twelve hours per week. Students in this category will require more than the normal four years in which to earn a degree.

Students who do not fulfill certain admission requirements may be admitted to follow particular courses and are considered as special students. They do not register for a degree granting program. Credits earned by a special student may be counted towards a degree as soon as he has met all the requirements for admission and candidacy for a degree provided that the credits thus earned be applicable to his program of studies for the degree. A special student cannot hold a scholarship nor take part in extracurricular activities.

COURSE NUMBERING SYSTEM

Courses are numbered from 100 to 500. Ordinarily, courses numbered in the one and two hundreds are given on the lower division, which comprises the first four semesters or first two academic years. Courses numbered in the three and four hundreds are ordinarily given on the upper division, which includes the last four semesters or the last two academic years.

PROGRAM OF STUDIES

The program of studies prescribed by the student's adviser and approved by the dean of the school in which the student is enrolled is his official roster of courses.

It is the student's responsibility to see that all the requirements of his program are fulfilled. He should have in writing from the dean any exceptions to the prescribed program which may be granted him.

A student may be permitted to change from one lower division program to another, or from one area of instruction to another, only when his previous record indicates that he may profit by such a change. In any change of this type the student must have the written permission of his chairman and the dean of his school. This change may entail taking approved summer courses or an additional semester in college. In no case may a student who transfers receive promotion or a degree sooner than he would have received it had he not transferred. No degree may be received less than one year after change of curriculum.

INTERDISCIPLINARY PROGRAMS

Each year a small cross-sampling of lower division students is chosen from applicants for the experimental freshman and sophomore interdisciplinary programs. Problem centered and community oriented, these programs stress student direction and participation.

In the freshman program the student takes nine hours of core courses in interdisciplinary work; at present the sophomore program involves only six hours. Grading for both programs is on a pass/fail basis, and no prerequisites are required for either program. Science majors and students enrolled in the honors program are ineligible.

DOUBLE MAJORS

In some circumstances, a student with special needs and abilities may be permitted to major in two departments or to follow a special interdepartmental program. After developing the program in consultation with both departments, the student must obtain approvals of both chairmen and of the dean. Arrangements should normally be completed during the spring semester of the sophomore year.

HONORS PROGRAM

The honors program is designed to provide the most academically talented students with an enriched program of general studies that will be both challenging and stimulating. The freshman honors student, as an apprentice in the program, studies in honors sections of two or three required courses. If he proves himself able and interested, he continues with honors courses in such areas as theology, philosophy, and English, which offer more depth and more advanced reading. In the upper division, such courses will frequently be given by distinguished visiting professors.

In his last two years, the honors student may, with the approval of his chairman, substitute an independent study course in each semester for any regularly scheduled course except theology or seminar. Class meetings in these courses are less frequent, and emphasis is on individual reading and research. During the course of the regular academic year, visiting lecturers and authorities in various fields are invited to the Honors Center for small and informal discussions with interested honors students.

COURSES AT CHESTNUT HILL COLLEGE

The cooperation of La Salle with Chestnut Hill College, a Catholic college for women situated about five miles from La Salle, results in a valuable coordination of programs. Students from either of the associated colleges can register for courses at the other college, with full credits, and without the payment of extra tuition. The calendar for the academic year in both colleges is identical. Students wishing to register for courses offered at Chestnut Hill will follow the same procedure as when they register for courses at La Salle. Classes at Chestnut Hill begin on the hour, at La Salle on the half-hour.

The cooperation of the two colleges will be more extensive in coming years, though the separate identities and characteristics of the two associated colleges will continue to exist.



NURSES' COOPERATIVE PROGRAM

La Salle participates in a cooperative program with a number of area hospitals in teaching the basic sciences to the students from these hospital schools. The essential program remains under the control of the parent schools. These students receive college credit for those courses attended at La Salle.

URBAN STUDIES AND COMMUNITY SERVICES CENTER

The Urban Studies Center was instituted in 1967 to assist the community in defining its most important needs, in designing programs to meet those needs, and in formulating proposals to assure the proper funding and administration of such programs. At the same time, the Center seeks to enlist the academic and human resources of the College and the knowledge and experience of the community in developing urban studies and survey research projects which will increase the awareness and expertise of faculty and students and be of long range benefit to the community. The Center is located at 5700 Wister Street.

OPEN DOOR PROGRAM

The Open Door Program provides an opportunity for a college education to selected disadvantaged students who are residents of Northwest Philadelphia. Students are chosen for this five-year program on the basis of geographic, economic, academic, and motivational criteria. Interested applicants should follow the normal procedure in applying for admission, indicating their interest in the Open Door Program on their application.

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LA SALLE IN EUROPE

Students who would like to broaden their educational background by studying in Europe may take advantage of the La Salle in Europe program. This program offers the opportunity of completing the junior year at the University of Fribourg in Switzerland while receiving full credit at La Salle for course work there. The cost of this program is approximately equal to the regular combined tuition and residence expense at La Salle. Detailed information is available from the Director, La Salle in Europe.

SUMMER SESSIONS

A variety of courses are offered in both day and evening sessions during the summer. A student may use these courses to enrich his academic program, to lighten his regular schedule, to make up failures, or, in some instances, to accelerate his progress toward a degree. The Summer Sessions are administered by the Dean of the Evening Division.

Properly qualified applicants from other accredited institutions are also admitted to the Summer Sessions.

THE RESERVE OFFICERS' TRAINING CORPS PROGRAM

The primary purpose of the ROTC program is to produce commissioned officers of Artillery in the Reserve or Regular Army.

ROTC instruction is divided into two phases: the basic course and the advanced course. The basic course consists of two academic years of instruction. All freshman students who wish to participate in this elective program must meet the following requirements for enrollment. They must be:

1. Citizens of the United States.
2. Physically qualified under standards prescribed by the Department of the Army.
3. Accepted by La Salle College as regularly enrolled students.
4. Not less than 14 years of age and under 23 years at the time of enrollment.
5. Pass such general survey or screening tests as may apply.

Those students who have successfully completed the basic course and who are selected by the President of the College and the Professor of Military Science may be enrolled in the advanced course. Eligible students enrolled in the basic or advanced courses may be deferred from induction into the Armed Forces. Transfer students who have not otherwise completed the basic course may enroll in the advanced course after completing a basic summer camp between sophomore and junior school years. However, these students would not be eligible for the two year ROTC scholarship, which is available on a competitive basis to a selected few of the sophomores in the basic course.

The advanced course consists of two academic years of instruction and six weeks of training in a summer camp between the junior and senior years. An average of two hours per week are devoted to military subjects during the first year of the basic course, three hours per week for the second year of the basic course, and four hours per week during the advanced course.

Students do not receive any pay while pursuing the basic course. While enrolled in the advanced course, students receive \$50.00 per month, and, while at the advanced course summer camp, receive \$193.20 per month, plus food, lodging, uniforms, equipment, medical care, and travel pay to and from the camp.

Uniforms, textbooks, and equipment are issued to the students at the beginning of each school year and must be turned in by the students at the end of the school year. Textbooks are issued for military subjects only. Uniforms must be worn on scheduled drill days.

Upon satisfactory completion of the ROTC course, students will be eligible for a commission in the U.S. Army Reserve. A few outstanding students will be eligible for a commission in the Regular Army.

Scholarships are available to outstanding students. See page 21 for details.

Prospective students who desire information concerning the Reserve Officers' Training Program should communicate with the Professor of Military Science, La Salle College, Philadelphia, Pennsylvania, 19141.



ATTENDANCE POLICY

Students are expected to attend classes regularly. Absences are permitted to provide for conditions beyond the control of the student. Ordinarily, these would be equal to twice the semester hours scheduled for the course; for example, six absences in a three hour course. Attendance is noted from the first regular class meeting regardless of the time of registration.

EXAMINATIONS

The last week of each semester is set apart for final examinations. Examinations to measure student progress are given at mid-term. Students who, for satisfactory reasons, fail to take a semester examination at the scheduled time may take a delayed examination. A delayed examination permit must be secured in the dean's office.

MAKE-UP EXAMINATIONS

Make-up examinations are given when an I grade has been received. The I grade is a provisional semestral grade given by an instructor to a student who has otherwise maintained throughout the semester a passing grade in course, but who has failed to take the semester examination in the course for reasons beyond his control. Make-up examinations for the fall semester must be completed before the opening day of the spring semester. All I grades that have not been removed within three weeks after the last regular examination of the semester become F's. In cases where it is physically impossible for this grade to be removed within this time limit, the time may be extended only by the written permission of the dean of the school.

GRADES

The following system of grades is used in measuring the quality of student achievement in courses:

A	Superior	(93-100)	I	Incomplete
B	Very Good	(84-92)	W	Withdrawal
C	Average	(77-83)	S	Satisfactory
D	Passable	(70-76)	U	Unsatisfactory
F	Failure	(below 70)		

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In the determination of final grades for courses, recitations, written assignments, and the results of the final examination are considered.

The I grade is counted as an F in computing averages for the first probation list, and it becomes a failure if it is not removed within the three weeks following the term in which it was given, unless for serious reason the dean has permitted a longer delay in final examination.

The withdrawal grade W is assigned when a student withdraws from a course with the dean's permission before its completion. Ordinarily permission for withdrawal is not granted after the period of the mid-term examinations.

Students may take free electives under a pass/fail option. If they indicate this option to the Registrar within two weeks after the course begins, the grade for the course will be recorded as S (satisfactory) or U (unsatisfactory). Such a grade will not affect the cumulative index, but semester hours graded S will be counted toward the total required for graduation. The purpose of the option is to encourage choice of challenging electives, including those outside of the student's major field.

STUDENT REPORTS

A progress report is submitted to the dean's office by each instructor at the middle of each term. Final grades are submitted at the end of a semester and these are made part of a student's permanent record. A report of semester grades is mailed to the student within two weeks after final examinations.

At the end of each year a report is sent to the high school from which the student was graduated.

SCHOLARSHIP INDEX

A scholarship index system is used at La Salle to determine a student's average grade. In determining the index, each letter grade is ascribed a numerical value, called grade points. A is valued at 4 grade points; B is valued at 3 grade points; C is valued at 2 grade points; D is valued at 1 grade point; F is valued at zero grade points.

A grade point score is calculated for each course by multiplying the numerical equivalent of the letter grade by the number of semester hours. The index, or the average grade of all courses, is found by dividing the sum of the grade point scores for all courses by the total number of semester hours of course work attempted.

ACADEMIC STANDING

First year students are required to earn a minimum average of 1.50 to be in good academic standing; second year students, 1.75; third year students, 1.90. Averages are computed at the completion of each semester.

DEANS' HONOR LIST

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The Deans' Honor List is published at the termination of each semester.

Those students who have a cumulative average of 3.4 are placed on the Deans' List. To be eligible for this list, a student must have complied with all the regulations of the College and must be free of all academic censure. Freshmen are not eligible for inclusion on this list.

While students on the Deans' List are excused from class attendance regulations, they are expected to fulfill the requirements of every course rostered. They are also eligible for courses in the College's honors program.

ACADEMIC CENSURE

Academic censure may assume any one of four forms, depending on the gravity of the situation calling for scholastic discipline. An evaluation of student records is made at the end of each semester.

(a) *Warning.* An official warning is given to a student who has received failure grades in one-third of the semester hours which comprised his official roster for the semester.

(b) *Probation.* A student is placed on probation when: (1) he has attained a cumulative scholarship index of (a) less than 1.50 after the first or second term of his freshman year, (b) less than 1.75 after the first or second term of his sophomore year, (c) less than 1.90 after the first or second term of his junior year; or (2) he has received failure grades in more than one-third of the semester hours which comprised his official roster for the semester last completed. Such a student will be continued on probation until he has satis-

fied the conditions for good standing. A student on probation automatically forfeits the privilege of cuts, participation in extracurricular activities, and eligibility for class office. When a student is placed on probation at the end of the fall term, the penalty becomes effective on the opening day of the spring term.

(c) *Suspension*. This is forced withdrawal from courses and residence with the privilege of returning at the discretion of the dean of his school.

(d) *Dismissal*. This is forced withdrawal from courses and residence without the privilege of seeking readmission.

A student is subject to dismissal: (1) when he has attained a cumulative scholarship index of (a) less than 1.00 during his freshman year, (b) less than 1.50 during his sophomore year, (c) less than 1.75 during his junior year; (2) if he has received failure grades in one-half of the credit hours of his official roster for that year; (3) if he has been on probation for two successive semesters; or (4) whenever, in the opinion of the dean of his school, a student shows by poor scholarship that he is no longer profiting by the educational program of the College.

CREDIT FOR OFF-CAMPUS COURSES

Course work taken at other institutions by regularly enrolled students at La Salle College may not be offered for credit unless the student has had written permission in advance from the dean of his school to take such courses. Credit is transferred only for marks of C or better. The grade obtained at another institution does not affect the student's index at La Salle College.

REQUIREMENTS FOR A DEGREE

The candidate for a degree must have completed course work equivalent to a minimum of 120 semester hours. Certain curricula may require a number of hours exceeding this minimum.

He must have obtained a C average or cumulative index of 2.00 in his prescribed program of studies.

He must have fulfilled all course requirements prescribed for him by the chairman of the department in which he majored and approved by the dean of the school in which he is enrolled.

He must have fulfilled the requirements of the core curriculum.

He must have completed eight semesters as a full time student, including the two semesters of his senior year.

HONORS

The bachelor's degree with honors is conferred on a student who has completed his course at the College with an average of all marks not lower than 3.4 and who has not incurred the penalty of loss of good standing for disciplinary reasons.

The candidate for the bachelor's degree who has earned an average of 3.8 in all courses is graduated with the distinction *Maxima Cum Laude*.

The candidate who has earned an average of 3.6 is graduated with the distinction *Magna Cum Laude*.

The candidate who has earned an average of 3.4 is graduated with the distinction *Cum Laude*.

Honors are computed on the basis of the work done for eight semesters.

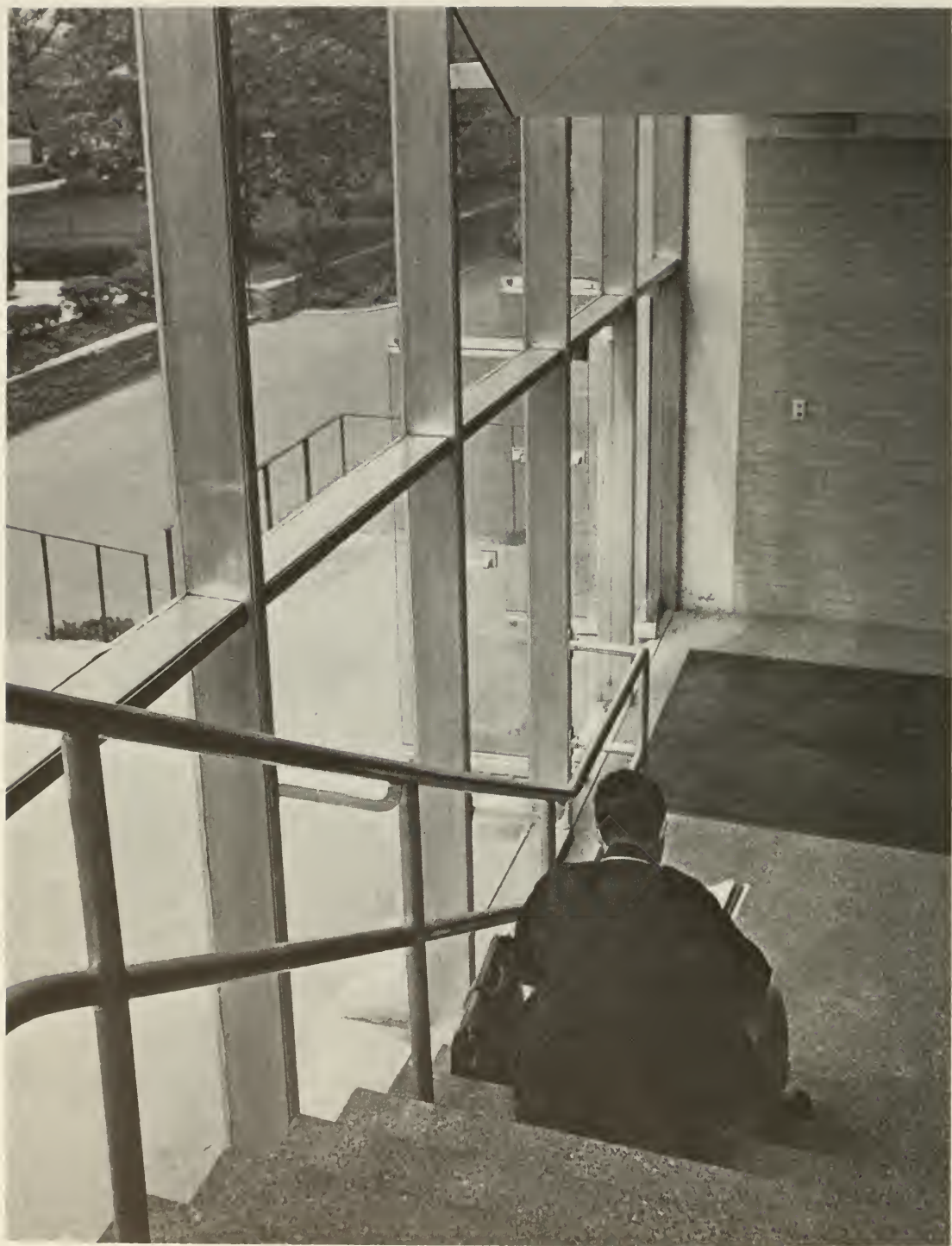
WITHDRAWALS

A student who withdraws from the College must submit a withdrawal notice to the dean of his school. In the event that a student withdraws without submitting an official withdrawal notice, honorable dismissal is not granted and he forfeits the privilege of returning to the College. The date of filing the withdrawal notice is considered as the date of withdrawal in all cases.

TRANSCRIPTS

Students may apply at the Registrar's Office for a transcript of their collegiate work. There is a fee of \$1.00 for every copy of a transcript requested after the first. The College requires at least one week's notice for the issuance of a transcript.





School of Arts and Sciences

The School of Arts and Sciences offers general or liberal arts programs and programs in science and mathematics. Within these two areas you may further specialize in a major field of study. In the liberal arts, the Bachelor of Arts degree is offered in classical languages, economics, English, history, modern languages, philosophy, political science, sociology, and theology. Concentration in the science area may lead to a B.A. degree in biology, chemistry, earth science, mathematics, physics, or psychology. The School also offers programs designed as preparations for law, medicine, dentistry, teaching, social work, and work in criminal justice.

OBJECTIVES

The objectives of the School of Arts and Sciences are essentially those of liberal education in general: to provide you with the opportunity to develop your intellectual faculties as fully as possible and to acquaint you with our cultural and scientific heritage.

The programs are organized to give you a variety of general courses in your first two years which lay the foundation for more specialized courses in your last two years. If you are undecided about your eventual major, the acquaintance with a wide variety of courses may help you choose the subject in which you would like to concentrate.

This concentration in your last two years permits you to deepen your knowledge in a particular area and prepares you for further study in graduate or professional school or for entry into such professions as social work, teaching, personnel work, government service, or the communication arts.

FOREIGN LANGUAGE PLACEMENT

Students who perform well in their high school language courses and earn an above-average mark in their College Board Achievement Test are normally placed in Language 202-204 in their first year. They may thereafter take an elective or another language course in their sophomore year. Students who give evidence of a very strong language background may be placed in more advanced courses. Native speakers may not take the elementary and intermediate language courses for credit.

Students who plan to enter graduate school are urged to acquire a good background in languages, since many graduate schools require a knowledge of several languages before granting higher degrees.

Programs of Study

Students who wish to prepare for careers in medicine, dentistry, teaching, or law will find pertinent information in the paragraphs immediately following. Those planning to major in any of the other arts or sciences will find a full four year listing of prescribed courses under the departmental heading. Departments are listed alphabetically in the following pages, and each major program is given in detail, along with descriptions of the courses offered in that department.

PREPARATION FOR MEDICINE

Most students preparing for medical school major in either biology or chemistry, since these programs include the courses generally required by the medical colleges. However, a prospective medical student may major in any program that allows completion of the following basic science courses which most members of the Association of American Medical Colleges require:

Chemistry	12-16 sem. hrs.
Physics	8
Biology	8
Mathematics	0- 6

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In addition to these courses, some medical schools specify or recommend certain others. It is advisable, therefore, that the premedical student familiarize himself with the exact requirements of the school to which he will apply.

Only those students who do better than average work in their courses will qualify for a favorable recommendation from the faculty.

PREPARATION FOR DENTISTRY

The basic requirements for admission to most dental schools are the same as those for admission to medical schools. The special courses, however, vary with each school. It is recommended, therefore, that the prospective dental student acquaint himself with the requirements of the school which he plans to enter.

Most prospective dental students major in biology or chemistry and at the same time meet the requirements for dental school.

PREPARATION FOR TEACHING

The teacher preparation program leads to eligibility for a provisional certificate to teach in the secondary schools of Pennsylvania and provides a foundation for those desiring to go on to further studies in the field. The Pennsylvania Department of Public Instruction has granted program approval in the preparation of teachers of biology, chemistry, English, French, German, history, history and government, Latin, mathematics, physics, and Spanish. Students who satisfactorily complete the College's requirements in these

areas are automatically issued teachers' certificates. Those planning to teach outside of Pennsylvania should familiarize themselves with certification requirements elsewhere.

A career in teaching should be considered only by those students who possess above-average scholastic ability, physical fitness, emotional maturity, a balanced personality, interest in young people, and a desire to teach.

The Teacher Education Committee, consisting of faculty representatives of the several academic divisions of the College, assists the faculty of the education department in the planning and scheduling of courses, in the screening of prospective teachers, and in the presentation of a program consistent with the objectives of a liberal arts college. A Teacher Placement Office on campus aids graduates in obtaining teaching positions.

For specific information on the teacher preparation program, see page 49.

PREPARATION FOR LAW

Law schools do not prescribe particular curricula for admission. La Salle College, therefore, approaches the preparation for law on an individual basis, tailoring the program of each student to individual needs and desires. Thus, students may major in English, political science, history, etc., as preparation for law. For those students who wish to pursue a program which does offer a curriculum directed toward particular courses recommended by law schools, however, the College offers a pre-law program. This program assures a broad liberal arts background and meets the requirement for admission and the preferences of all accredited law schools.

Any student considering law as a career, regardless of his major curriculum interest, is encouraged to seek early counseling with the Director of the Pre-Law Program.

PREPARATION FOR LAW

EDWARD J. DOMINESKE, J.D., *Director*

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
English 101	3	English 102	3
Language 101	3	Language 102	3
Mathematics or Science Option ...	3	Mathematics or Science Option ...	3
History A Elective	3	History A Elective	3
<hr/>		<hr/>	
15		15	

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
Language 202	3	Language 204	3
Psychology 101	3	English 319	3
Economics 111	3	Economics 112	3
<hr/>		<hr/>	
15		15	

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
English 322 or 315	3	English 401	3
Accounting 101	3	Accounting 102	3
Political Science 101	3	Political Science 103	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Economics 415	3	Philosophy Elective	3
Political Science or History Option	3	Economics 416	3
Fine Arts Elective	3	Political Science or History Option	3
Electives	6	Electives	6
	<hr/>		<hr/>
	15		15

BIOLOGY

JOHN S. PENNY, Ph.D., *Chairman*

Professors: Holroyd, Penny

Associate Professors: Bogacz, Lowery

Assistant Professors: Belzer, Hawley, Ksiazek, Muldoon

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
English 101	3	English 102	3
Language 101	3	Language 102	3
Mathematics 103	4	Mathematics 106	4
Chemistry 111	4	Chemistry 112	4
	<hr/>		<hr/>
	17		17

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
Language 202	3	Language 204	3
History or Social Science Option ..	3	History or Social Science Option ..	3
Physics 211	4	Physics 212	4
Biology 201	4	*Biology Elective	4
	<hr/>		<hr/>
	17		17

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
English 205	3	English 206	3
Chemistry 311	4	Chemistry 312	4
Biology Elective	4	Biology Elective	4
Elective	3	Elective	3
	<hr/>		<hr/>
	17		17

FOURTH YEAR

Fall		Spring	
Chemistry 433	4	Philosophy Elective	3
Biology Electives	6	Biology Elective	3
Electives	6	Chemistry 434	4
	—	Electives	6
	16		—
			16

* The sequence of Biology 201, 202, 303, and 302 is strongly recommended by the department. All graduating biology majors must have a minimum of 25 credit hours in biology.

Biology 110-111.

ANATOMY AND PHYSIOLOGY

3-6 credits

A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. May be taken by non-science majors to fulfill their science requirement.

Biology 117-118.

GENERAL BIOLOGY

3-6 credits

A terminal course for those who can take only one year of biology. Structure and metabolism of seed plants and vertebrate animals; brief survey of the plant and animal kingdoms. Consideration of evolution, ecology, and genetics for both plants and animals. Two hours lecture, two hours laboratory; two terms.

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Biology 201.

THE LIVING ORGANISM

4 credits

Integrated principles of modern biology; the attributes of life and hypotheses of its genesis; the continuity of life and its diversification; energy sources and the biological energy cycles; cells, organisms and their structure and communities. Required of all biology majors; may be waived for advanced standing. Prerequisite: General Chemistry. Three hours lecture, two hours laboratory.

Biology 202.

THE INVERTEBRATES

4 credits

Life processes, phylogenetic advances, and basic classification of the major pre-Chordate phyla with emphasis on their evolution and ecology. Three hours lecture, two hours laboratory.

Biology 207.

CLINICAL MICROBIOLOGY

3 credits

The physical and chemical techniques available for the destruction of microbes; the prevention of microbial contamination; role of specific pathogens in the etiology of human disease processes; chemotherapeutic and antibiotic preparations available to assist the body mechanisms. Recommended for nurses. Offered both semesters.

Biology 302.

THE PLANT KINGDOM

4 credits

Functional anatomy, phylogeny, and basic systematics of non-vascular and vascular plants. Three hours lecture, two hours laboratory.

Biology 303.**THE VERTEBRATES**

4 credits

Comparative systemic anatomy of the vertebrate classes; hypotheses of origin and radiation of the phylum Chordata. Laboratory dissections of representative Chordates from amphioxus to mammal. Two hours lecture, four hours laboratory.

Biology 405.**HISTOLOGY**

4 credits

The minute and ultra structure of mammalian primary tissues together with their functional relationships in the formation of major organ systems; histological basis of function is stressed. Two hours lecture, four hours laboratory.

Biology 406.**EMBRYOLOGY**

3 credits

Fundamental processes underlying vertebrate development and differentiation; the frog, chick and pig form the basis of instruction. Two hours lecture, two hours laboratory.

Biology 407.**MICROBIOLOGY**

3 credits

A lecture-laboratory course concerned with the role of microorganisms in nature and especially in human affairs. One hour lecture, four hours of laboratory; one term.

Biology 408.**THE CELL**

3 credits

Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Prerequisite: Organic Chemistry. One hour lecture, four hours laboratory.

Biology 409.**PRINCIPLES OF ECOLOGY**

3 credits

Basic concepts of ecological theory; physical and biotic factors affecting the evolution, behavior and community organization of organisms. Three hours lecture with field observations.

Biology 410.**FIELD ECOLOGY**

3 credits

Project laboratory at the La Salle Penllyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Recommended prerequisite: Biology 409. Six hours laboratory and field work.

Biology 411.**MICROTECHNIQUE**

2 credits

Histochemical and cytological techniques associated with the preparation of animal and plant materials for microscopic study. One hour lecture, two hours laboratory.

Biology 412.**GENETICS**

2 credits

Mendel's laws of heredity as observed in plants and animals; the scope and method of modern genetics.

Biology 413.**GENETICS LABORATORY**

1 credit

Prerequisite: Biology 412, which may be taken concurrently. Two hours laboratory.

Biology 414.**TAXONOMY OF THE ANGIOSPERMS**

2 credits

A study of the classification of flowering plants. Practice in the use of keys of identification; phylogeny and economic importance of the leading families of flowering plants. One hour lecture, two hours laboratory.

Biology 415.**HORTICULTURAL AND FOREST BOTANY**

2 credits

Relation of man to cultivated plants; soil, plant propagation, the elements of landscape horticulture together with the basic problems of forestry are included; visits to greenhouses and botanic gardens; lectures and practical work.

Biology 418.**GENERAL PHYSIOLOGY**

3 credits

Metabolic processes and associated physico-chemical phenomena of living organisms. Current hypotheses of muscle, endocrine, neural, respiratory, cardiovascular, and nutritional physiology. Prerequisite. Organic Chemistry. One hour lecture, four hours laboratory.

Biology 419.**NEUROMUSCULAR PHYSIOLOGY**

3 credits

A physiological study of cardiac, skeletal, and smooth muscle and their relationship to the central and autonomic nervous systems. One hour lecture, four hours laboratory.

Biology 422-423.**BIOLOGICAL RESEARCH**

2-4 credits

Laboratory or theoretical research under staff supervision; permission of chairman required. Hours to be arranged.

Biology 425.**RADIOBIOLOGY**

3 credits

Nuclear technology as applied to life sciences; theory, instrumentation, and use of radioactive isotopes in animals and plants. One hour lecture, four hours laboratory.

Biology 427.**SEMINAR**

2 credits

Presentation of review papers and discussions of assigned topics from main currents of biological research; participants to be recommended by department staff.



CHEMISTRY*

MAX BARTH, Ph.D., *Chairman*
Professors: Barth, Paul, Wilson
Associate Professors: Demitras, Tekel
Lecturers: Malone, Polek

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
English 101	3	English 102	3
German 101	3	German 102	3
Mathematics 103	4	Mathematics 106	4
Chemistry 111	4	Chemistry 112	4
	<hr/>		<hr/>
	17		17

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
German 202	3	German 204	3
Chemistry 311	4	Chemistry 312	4
Physics 211	4	Physics 212	4
Mathematics 216	4	Mathematics 217	4
	<hr/>		<hr/>
	18		18

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
English 205	3	English 206	3
Chemistry 302	4	Chemistry 406	4
Chemistry 405	4	Chemistry 408	4
Elective	3	Elective	3
	<hr/>		<hr/>
	17		17

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
History or Social Science Option ..	3	Philosophy Elective	3
Chemistry 401	3	History or Social Science Option ..	3
Chemistry 407	4	Chemistry 430	3
Electives	6	Electives	6
	<hr/>		<hr/>
	16		15

* This program meets the standards of the American Chemical Society. ACS certification will be awarded only to those chemistry majors who maintain the required grades.

Chemistry 101-102.

GENERAL CHEMISTRY

4-8 credits

A terminal course. Designed specifically for students who wish to obtain a general knowledge of chemistry in one survey course. Descriptive chemistry and the quantitative aspects of chemical principles are discussed. Three hours lecture, three hours laboratory; two terms.

Chemistry 111-112.**GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS**

4-8 credits

Fundamental concepts, laws, and theories of chemistry; emphasis on the principles of ionization, chemical equilibria, solubility product, hydrolysis and complex ions. Laboratory experiments stress the quantitative aspects; experiments of the latter half of the second semester are devoted entirely to qualitative analysis. Three hours lecture, three hours laboratory; two terms.

Chemistry 302.**QUANTITATIVE ANALYSIS**

4 credits

Neutralization, oxidation-reduction, chemical equilibria, colorimetry and the methods of quantitative chemical analysis. Thorough training in volumetric, gravimetric, and colorimetric techniques. Two hours lecture, six hours laboratory.

Chemistry 311-312.**ORGANIC CHEMISTRY**

4-8 credits

Emphasis is placed on the modern approach to structure and reaction mechanisms; intended for chemistry majors. Prerequisite: Chemistry 111-112. Three hours lecture, three hours laboratory; two terms.

Chemistry 401.**ADVANCED INORGANIC CHEMISTRY**

3 credits

The vector model of the atom, theoretical aspects of chemical bonding, descriptive chemistry trends relative to the periodic table, molecular structure and symmetry of molecules, and general discussion of the transition metals and their complex ions. Prerequisites: Chemistry 311-312, 405-406.

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Chemistry 402.**QUANTUM CHEMISTRY**

2 credits

Quantum mechanics applied to the solution of some elementary systems. Discussion of chemical bonding. Introduction to elementary statistical mechanics using results derived from quantum mechanics.

Chemistry 405-406.**PHYSICAL CHEMISTRY**

4-8 credits

Elementary principles of physical chemistry discussed and illustrated by suitable laboratory experiments. The ideal gas, real gases, liquids, solids, elementary thermodynamics, thermochemistry, solutions, equilibria, kinetics, electromotive force, electrical conductivity, and chemical thermodynamics. Prerequisites: Chemistry 311-312; Mathematics 216-217. Three hours lecture, three hours laboratory; two terms.

Chemistry 407.**QUALITATIVE ORGANIC ANALYSIS**

4 credits

A study of the classifying reactions of organic compounds as exemplified by the analysis of compounds and mixtures in the laboratory. Restricted to chemistry majors. Prerequisites: Chemistry 311-312. Eight hours of laboratory per week and individual conferences.

Chemistry 408.**ADVANCED QUANTITATIVE ANALYSIS**

4 credits

Theory and practice of physical measuring instruments with particular attention to the use of the instruments. Modern trends in analytical chemistry. Two hours lecture, six hours laboratory.

Chemistry 410 and /or 411.**CHEMICAL RESEARCH**

4-8 credits

Individual laboratory or theoretical work under supervision of a staff member. Restricted to chemistry majors. Hours to be arranged.

Chemistry 430.**ADVANCED ORGANIC TOPICS**

3 credits

Designed to extend the knowledge of organic chemistry; emphasis on those topics not fully developed in the elementary course. An introduction to the literature of chemistry is also included. Prerequisite: Chemistry 311-312. Three hours of lecture.

Chemistry 431.**BIOCHEMISTRY**

4 credits

The chemistry of carbohydrates, fats, proteins, vitamins, enzymes, and hormones; emphasis on their roles in biochemical processes. Laboratory work illustrates common techniques used to prepare, identify, and assay biochemical materials. Prerequisite: Chemistry 311-312. Three hours lecture, three hours laboratory.

Chemistry 433-434.**ANALYTICAL PHYSICAL AND BIOLOGICAL CHEMISTRY**

4-8 credits

The techniques of analytical chemistry, including instrumental analysis, and the theories of physical chemistry applied to biochemical reactions. *Intended for biology majors.* Prerequisites: Chemistry 312, Mathematics 106, Physics 212. Three hours lecture, three hours laboratory.

EARTH SCIENCERODDY V. AMENTA, M.S., *Chairman**Associate Professor: Sullivan**Assistant Professor: Amenta*

This program has been designed to fulfill either of the following requirements:

1. a bachelor's degree in earth science affording preparation for graduate work in geology, meteorology, oceanography, environmental biology and allied fields.
2. completion of requirements of the state of Pennsylvania for teacher certification in earth and space science.

FIRST YEAR*Fall*

Theology A Elective	3
English 101	3
Language 101	3
Mathematics 103	4
Earth Science 101	3

—
16*Spring*

Philosophy 107	3
English 102	3
Language 102	3
Mathematics 106	4
Earth Science 102	3

—
16**SECOND YEAR***Fall*

Theology B Elective	3
Language 202	3
History A Elective	3
English 205	3
Physics 111 or	
Mathematics 216	4

—
16*Spring*

Philosophy 206	3
Language 204	3
History A Elective	3
English 206	3
Physics 112 or	
Mathematics 217	4

—
16

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Chemistry 111	4	Chemistry 112	4
Earth Science 103	3	Earth Science 104	3
Earth Science 201	3	Earth Science 202 or	
Elective or		Education 302	3
Education 301	3	Elective or	
	—	Education 303	3
	16		—
			16

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Earth Science 401 or		Philosophy Elective	3
Education 401	3	Earth Science 402	3
Earth Science Elective*	3	Earth Science Electives or	
Fine Arts Elective	3	Education 402	6
Electives	6		—
	—		12
	15		

* Earth Science electives include Biology 117-118, 409, 410; Physics 305, 306.

Earth Science 101.

PHYSICAL GEOLOGY

3 credits

Principles of physical geology, including classification of rocks, weathering, earthquakes, volcanoes, glaciation, marine erosion and mountain building. Two hours lecture, two hours laboratory and field trips.

Earth Science 102.

HISTORICAL GEOLOGY

3 credits

The geological history of the world, with special reference to eastern North America. The evolution of life through the ages. Two hours lecture, two hours laboratory and field trips.

Earth Science 103-104.

DESCRIPTIVE ASTRONOMY

3-6 credits

The celestial sphere and its coordinates; the telescope and other astronomical instruments, time and the calendar; the solar system; the stars—their distances, motion, spectra, luminosity and development; binary and multiple star systems, nebula; and the external galaxies.

Earth Science 201.

PHYSICAL GEOGRAPHY

3 credits

A study of the genesis, formation and characteristics of land forms. Laboratory exercises include an interpretation of land forms for topographic maps and aerial photographs. Two hours lecture, two hours laboratory.

Earth Science 202.

METEOROLOGY

3 credits

A treatment of the composition and properties of the atmosphere, observation of essential weather elements as well as the effects of weather and climate upon man and his activities. Two hours lecture, two hours laboratory. Prerequisites: Mathematics 103, 106.

Earth Science 302.**PALEONTOLOGY**

3 credits

A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the stratigraphic record. Includes recent advances in paleoecology and geomorphology. Prerequisite: Biology 117-118 or Biology 201. Two hours lecture, two hours laboratory.

Earth Science 401.**STRUCTURAL GEOLOGY**

3 credits

The study of the geometry of geologic structures, their recognition and possible modes of origin. Laboratory will be concerned with analysis of geologic maps, fold and fault styles, and lineation patterns using three-dimensional techniques. Field trips. Two hours lecture, two hours laboratory.

Earth Science 402.**MINERALOGY AND CRYSTALLOGRAPHY**

3 credits

Emphasis is on the identification of minerals by means of the polarizing microscope. Prerequisite: one year of general chemistry; Earth Science 101 recommended. Two hours lecture, two hours laboratory.

ECONOMICSJOSEPH P. MOONEY, Ph.D., *Chairman**Professors: Ciesla, Flubacher, Mooney**Assistant Professors: Cairo, Duffy, Geruson, Grady, Kane**Instructors: Deans, Maran, Ricciardi**Lecturer: Sadnicki***FIRST YEAR**

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
Language 101	3	Language 102	3
English 101	3	English 102	3
Mathematics 101 or 103	3	Mathematics 102 or 106	3
Economics 111	3	Economics 112	3
	<hr/>		<hr/>
	15		15

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
Language 202	3	Language 204	3
English 205	3	English 206	3
History A Elective	3	History A Elective	3
Economics 322	3	Economics 325	3
	<hr/>		<hr/>
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Economics 401	3	Economics 402	3
Psychology 101	3	Economics 203	3
Economics 313	3	Economics 314	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Economics 415	4	Philosophy Elective	3
Economics 420	3	Economics 416	4
Fine Arts Elective	3	Economics 421	3
Social Science Elective	3	Social Science Elective	3
Elective	3	Elective	3
	16		16

Economics 111.

PRINCIPLES OF ECONOMICS I

3 credits

Fundamental economic principles and processes including such topics as national income, employment theory, monetary and fiscal policy, public debt, business cycles and inflation. Prerequisite for all economics courses except 320, 321, 415 and 416.

Economics 112.

PRINCIPLES OF ECONOMICS II

3 credits

A continuation of Economics 111. Topics treated include economic growth, price theory, international trade, development theory, and certain topics in applied economics. Prerequisite for all economics courses except 320, 321, 415 and 416.

Economics 203.

MONETARY THEORY

3 credits

An analysis of the role of money and the monetary system in determining income, employment, and the price level. Prerequisites: Economics 111, 112.

Economics 313.

ECONOMICS AND BUSINESS STATISTICS I

3 credits

General introduction to the basic ideas and procedures of statistical analysis with special emphasis on their application to economics and business. Methods of statistical description, index numbers and time series analyses.

Economics 314.

ECONOMICS AND BUSINESS STATISTICS II

3 credits

Foundations of statistical inference as applied to decision-making on the basis of limited information. Basic concepts of probability, probability distributions, estimation and test of hypotheses, regression and correlation techniques.

Economics 317.

LABOR PROBLEMS IN AMERICA

4 credits

Study of the sources of the union movement, its history, structure, and functions. Attention to the development of economic, political and social power, as well as to the problems involved in the use of this power; management rights and management reaction to unions are also treated.

Economics/Sociology 320.

INTRODUCTION TO URBAN STUDIES

3 credits

An introduction to the varied disciplinary approaches used by social scientists in their investigation of the urban scene. Study and discussions of the literature on urban affairs. Independent research projects on surrounding neighborhood area. Co-taught by sociology and economics departments. Identical with Sociology 320.

Economics/Sociology 321.

SEMINAR IN URBAN STUDIES

3 credits

Intensive analysis of the city as a system of interrelated variables and institutional subsystems. Stresses current policies and practices in the social and economic options available to various urban interest groups. Independent research projects on the Philadelphia region. Co-taught by economics and sociology departments. Prerequisite: 6 sem. hrs. of social science. Identical with Sociology 321.

Economics 322.

AMERICAN ECONOMIC HISTORY

3 credits

History of the growth and development of the economic institutions of the United States from the Age of Discovery to the New Deal and their influences on political and social organizations.

Economics 325.

INTRODUCTION TO MATHEMATICAL ECONOMICS

4 credits

Designed to acquaint the student with certain topics in algebra, analytic geometry, and calculus which are most useful in their application to micro- and macroeconomic analysis.

Economics 401.

INTERMEDIATE ECONOMIC THEORY I: PRICE THEORY

4 credits

Theory of consumer behavior, production, and cost. Price determination of products in various market models and of factors of production. Welfare economics. Prerequisites: Economics 111, 112.

Economics 402.

INTERMEDIATE ECONOMIC THEORY II: THEORY OF EMPLOYMENT, GROWTH, AND FLUCTUATIONS

4 credits

Theory of the level of income and employment. Theories of economic growth, traditional and modern. Theories of economic fluctuations, stabilization policies, and forecasting. Prerequisites: Economics 111, 112.



Economics 403.**INTERNATIONAL ECONOMICS**

3 credits

An introduction to the theory of international exchange, to natural and policy barriers to trade, to relations between developed and developing countries, and to international disequilibrium. Stress on the evolution of the international monetary system and selected current problems such as balance of payments, exchange standards, liquidity, and the role of international institutions. Prerequisites: Economics 111, 112.

Economics 404.**PUBLIC FINANCE**

3 credits

An analysis of the revenue and expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity and stability in the economy. Prerequisites: Economics 111, 112.

Economics 415.**HISTORY OF ECONOMIC THOUGHT**

3 credits

A detailed study of the leading economic concepts and schools of economic thought from the mercantilists up to and including Alfred Marshall.

Economics 416.**CONTEMPORARY ECONOMIC SYSTEMS**

3 credits

A continuation of Economics 415 until Keynesian economics has been treated; a history and analysis of socialist and Marxist thought culminating in a comparative study of the structure and function of the economies of the United States and the Soviet Union.

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Economics 420-421.**SEMINAR**

3-6 credits

A study of methodology in economics and of the techniques of preparing research reports. Second semester includes readings, discussions, and presentation of individual research reports. *Required of majors in economics and open to others with permission of the department chairman.*

EDUCATIONWILLIAM J. BINKOWSKI, M.A., *Chairman**Associate Professor: Binkowski**Assistant Professors: Bangs, Clabaugh, Fromuth, Gresh, McEntee**Instructor: Farley*

Since a major program is not offered by the education department, the student selects his major in the field in which he plans to teach. During his freshman year, he follows the program prescribed by that department for its majors preparing to teach.

Application for admission into the teacher education program is normally made during the second semester of freshman year. Admission requires the approval of the chairman of the department of the major subject, the chairman of the education department, and Dean of School of Arts and Sciences, based on evidence that the candidate possesses the physical, emotional, and personal qualities necessary for successful teaching. The candidate must have and maintain a scholarship index of at least 2.00 for admission and retention in the program.

In his last three years, the student preparing to teach follows the program below, together with courses designated by the department chairman of his major subject.

Student teaching (Education 402) may be taken in either term. The student must have an index of 2.50 or over in his major subject and approval from chairman of the department of the major subject, the chairman of the department of education, and Dean of School of Arts and Sciences to be accepted for student teaching.

Students not preparing for teaching may elect courses in education with the approval of the department of education.

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
Education 301	3	Education 302	3
Psychology 101	3	Major courses and	
Major courses and		Electives	9
Electives	6		—
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Education 303	3	Education 401	3
Major courses and		Major courses and	
Electives	9	Electives	9
	15		—
			15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Education 402*	6	Philosophy Elective	3
Major courses and		Major courses and	
Electives	9	Electives	12
	15		—
			15

* May be scheduled in either semester.

Education 301.

THE SCHOOL: INTRODUCTION TO EDUCATION

3 credits

The role of the public school in American society. Particular attention to historical, social, and philosophical background. Fall semester.

Education 302.

THE CHILD: EDUCATIONAL PSYCHOLOGY

3 credits

Study of psychological principles as they apply to the pupil and the learning process at the secondary school level. Spring semester.

Education 303.

THE TEACHER: GENERAL METHODS OF TEACHING

3 credits

Common problems met by the teacher in the classroom; lesson planning, tests and measurements, teaching techniques, classroom management. Fall semester.

Education 401.

THE SUBJECT: SPECIAL METHODS OF TEACHING

3 credits

Training in methods of instruction in student's major subject. Course conducted by member of department or area in which the prospective teacher is preparing. Spring semester.

Education 402.

PRACTICUM IN TEACHING

6 credits

Includes school visitations, pre-student teaching and other field experiences, and culminates with student teaching conducted under direction of college supervisors and cooperating teachers in the secondary schools. Open only to seniors who receive satisfactory recommendations from their department chairman, the education department, and their dean. Prerequisite: written application to be filed with Teacher Education Committee by March 15 of the junior year. Fall or spring semester.

Education 404.

EDUCATIONAL MEDIA

3 credits

Direct application of media, methods and materials to the classroom. Preparation of instructional materials; use, application and development of multi-media, self-instructional programs.

ENGLISHCHARLES V. KELLY, M.A., *Chairman**Professors:* Burke, Kelly, Koch*Associate Professors:* Devlin, Doran, Ellis, Fallon, Hannum, Keenan,

Mollenhauer, Paulits, Rodden, Sheekey

Assistant Professors: Carter, Cunningham, Eriksson, Frank, Gresh, Kleis,

Lautz, MacLeod, Rao, Seydow, Thornton

Instructors: Branam, Hammill, McClatchy, Ruggiero, Willens*Lecturer:* McClelland

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FIRST YEAR*Fall*

Theology A Elective	3
English 101	3
Language 101	3
Mathematics or	
Science Option	3 or 4
Social Science Elective	3
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15 or 16

Spring

Philosophy 107	3
English 102	3
Language 102	3
Mathematics or	
Science Option	3 or 4
Social Science Elective	3
	<hr/>

15 or 16

SECOND YEAR*Fall*

Theology B Elective	3
English 205	3
Language 202	3
History A Elective	3
English 209	3
	<hr/>

15

Spring

Philosophy 206	3
English 206	3
Language 204	3
History A Elective	3
English 210	3
	<hr/>

15

THIRD YEAR

Fall

Theology C Elective	3
English 313	3
English 314	3
Psychology 101	3
Elective	3
—	—

15

Spring

Philosophy 305	3
English 315	3
English Elective*	3
Fine Arts Elective	3
Elective	3
—	—

15

FOURTH YEAR

Fall

English 328 or 329	3
English 413**	3
English 306, 308, 318, or 355	3
Electives	6
—	—

15

Spring

Philosophy Elective	3
English 405 or 406	3
English 414**	3
English 322, 416, or 420	3
Elective	3
—	—

15

* Any period course (English 360 to 367).

** The recommended elective for students planning graduate work. Others should roster another English elective.

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English 101.

COMPOSITION

3 credits

Training in exposition and argumentation. Weekly themes.

English 102.

COMPOSITION

3 credits

Writing assignments based upon readings in short fiction; the research paper.

Prerequisite: English 101.

English 105-106.

HISTORY OF THE THEATRE AND THE DEVELOPMENT OF THE DRAMATIC STRUCTURE

3-6 credits

A study of the development of the composite arts of theatre, and an analysis of the dramatic structure in representative plays. Fall term: origins to 1700. Spring term: 1700 to present. *Required of speech and drama majors.*

English 205.

APPROACH TO LITERATURE

3 credits

Training for literary understanding and appreciation through a study of the types of literature, particularly the drama and the novel.

English 206.

APPROACH TO LITERATURE

3 credits

Training for literary understanding and appreciation through a study of poetry and the novel.

English 209-210.

THE LITERATURE OF ENGLAND

3-6 credits

Survey course in English literature showing development in types and forms. Fall: *Beowulf* to Blake. Spring: since 1800.

English 219-220.

GREAT BOOKS IN ENGLISH

3-6 credits

Honors course. Reading of major works in their entirety, in chronological sequence, linked by discussion of major periods and movements. Short critical papers.

English 306.

INTRODUCTION TO DESCRIPTIVE LINGUISTICS

3 credits

Nature of language; modern methods of linguistic analysis. Social and cultural background of language. Fall term.

English 307.

CHAUCER

3 credits

Readings in Chaucer, especially *Troilus and Criseyde* and *The Canterbury Tales*. Spring term.

English 308.

INTRODUCTION TO HISTORICAL LINGUISTICS

3 credits

Theories and techniques dealing with the development of language through history. Language change. Comparative method. Spring term.

English 313.

READINGS IN BRITISH DRAMA: MYSTERY PLAYS TO WILDE (1900)

3 credits

Survey of the important dramas of England from the Middle Ages to 1900. Fall term.

English 314.

THE POEM IN ENGLISH

3 credits

A study of the uses of language in English poetry—meter, metaphor, symbol, and other linguistic features—and of the major conventional forms of English poetry. Both terms.

English 315.

READINGS IN THE BRITISH AND AMERICAN NOVEL:

RICHARDSON TO HARDY (1900)

3 credits

Historical development of the genre; structural questions of the narrative form. Both terms.

English 318.

HISTORY OF THE ENGLISH LANGUAGE

3 credits

Origins and the development of modern English from Old and Middle English; dialects and dialect geography. Fall term.

English 319.

ORAL COMMUNICATION

3 credits

Speech composition, audience psychology, and technique of delivery; emphasis on practical speaking experience. Fall term.

English 321.

ADVANCED ORAL COMMUNICATION

3 credits

Oral reading, argumentation and debate. Further practical experience. Prerequisite: English 319. Spring term.

English 322.
CONTEMPORARY BRITISH AND AMERICAN NOVEL 3 credits
A study of the major novelists of the present century in England and America.
Structure and trends. Both terms.

English 328.
SHAKESPEARE 3 credits
Reading of a wide selection of plays and sonnets with a concern for Shakespeare's
artistic development. Fall term.

English 329.
SHAKESPEARE 3 credits
Intensive study of selected poems and plays, including tragedies, comedies, and
chronicles. Spring term.

English 340-341-342.
CREATIVE WRITING I, II, & III 3 credits per term
Workshops in the writing of fiction and verse.

English 344.
FUNDAMENTALS OF JOURNALISM 3 credits
Training in basic techniques of journalism and practical experience on student
publications. Fall term.

English 349.
THE FILM AS ART 3 credits
Study of selected films and discussion of cinematographic techniques involved.
Both terms.

English 355.
STRUCTURE OF ENGLISH 3 credits
Linguistic description of 20th century American English. Comparison of traditional
and modern grammatical analyses. Of special interest to English-education majors.
Spring term.

English 360.
MIDDLE ENGLISH LITERATURE 3 credits
A survey of English literature of the 12th through 15th centuries, exclusive of
Chaucer. Fall term.

English 361.
RENAISSANCE LITERATURE 3 credits
Selected readings in the literature of the English Renaissance. Particular attention
to: More, *Utopia*; Spenser, *Faerie Queen*; Marlowe, *Hero and Leander*; Shakes-
peare, "Venus and Adonis," *Troilus and Cressida*; Browne, *Urn Burial*; Milton,
Paradise Lost.

English 362.
ENGLISH LITERATURE OF THE RESTORATION AND 18th CENTURY 3 credits
The historical approach will include the chief figures: Dryden, Pope, Swift, Addi-
son and Steele, Johnson and their more outstanding contemporaries. Fall term.

English 363.**ENGLISH LITERATURE OF THE ROMANTIC PERIOD**

3 credits

An historical survey of the lyric and narrative poets Coleridge, Wordsworth, Byron, Shelley, Keats, their practice and theory. Pertinent references to their contemporaries. Fall term.

English 364.**ENGLISH LITERATURE OF THE VICTORIAN PERIOD**

3 credits

The chief literary figures of the period—Tennyson, Arnold, Browning, Hopkins, Carlyle, Newman, Ruskin—and their contemporaries placed against their milieu. Lyric and essay stressed. Spring term.

English 365.**AMERICAN LITERATURE (to 1860)**

3 credits

Literary historical movements of the period; major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman. Fall term.

English 366.**AMERICAN LITERATURE (1860-1920)**

3 credits

Rise of realism; naturalism; the "new poetry." Figures include Twain, Dickinson, Howells, James, Crane, Dreiser, and Robinson. Both terms.

English 367.**AMERICAN LITERATURE (SINCE 1920)**

3 credits

Survey of developments in poetry, fiction, and criticism; figures include Hemingway, Fitzgerald, Faulkner, Frost, Eliot, Steinbeck, and selected writers of the 1950's and 1960's. Spring term.

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English 375.**MILTON**

3 credits

A study of the form and content of Milton's poetry, supplemented by student research on his prose and on the ideas and values of his age. Fall term.

English 401.**ADVANCED EXPOSITION**

3 credits

Practice in confronting special writing problems of business, education, and other professions. Recommended for prospective teachers. Both terms.

English 405.**LITERARY THEORY AND CRITICISM**

3 credits

An introduction to the theory of literary structure and literary value; exercises in the description and evaluation of literary works; reports on assigned readings. Spring term.

English 406.**HISTORY OF LITERARY CRITICISM**

3 credits

Reading and discussion of major critical texts in historical setting. Short critical papers. Fall term.

English 412.**SEMINAR ON SPECIAL LITERARY TOPICS**

3 credits

An introductory course to specialized research, concentrating on one particular aspect of literature. The subject matter will vary from term to term. Fall: The Southern American Novel. Spring: Afro-American Literature.

English 413-414.**SENIOR COORDINATING SEMINAR**

3-6 credits

Intensive study of one author (chosen by student) with relation to his literary period and genre. Preparation and discussion in small group meetings of two long papers each semester by each student with emphasis on synthesis of the ideas presented in individual courses.

English 416.**READINGS IN MODERN DRAMA**

3 credits

A study of selected plays of the modern theatre from Ibsen to Ionesco, with an emphasis on the forces which have shaped the drama of England, Ireland, and America. Spring term.

English 420.**CONTEMPORARY POETRY**

3 credits

An examination of representative 20th century poetic practice in English. Fall term.

English 433.**GOD AND MAN IN MODERN LITERATURE**

3 credits

Changing concepts of God, the Self, and the relations between the two; the reflection of the changes in several outstanding 20th century authors. Both terms.

FINE ARTS

GEORGE K. DIEHL, M.A., *Chairman*

Assistant Professors: Diehl, Riddington, White

Instructor: Hanes

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Art 205.**ELEMENTS OF ART**

3 credits

Analysis of the elements of painting, sculpture, and architecture; application of principles to several major artists and to the major stylistic periods.

Art 301.**OIL PAINTING**

3 credits

Introduction to basic techniques of sketching and painting. Preparation of materials and instruction in perspective. Exercises in indoor and outdoor painting.

Art 302.**ADVANCED PAINTING**

3 credits

Further exercise in painting from the model, still life, and landscape.

Art 329-330.**HISTORY OF ART**

3-6 credits

Historical survey of the principal branches of the fine arts in western civilization. Fall term: beginnings to 1500. Spring term: 1500 to present.

Art 331.**AMERICAN ART**

3 credits

Chronological survey of painting, sculpture, architecture and the minor arts in America from colonial times to the present. Particular emphasis on monuments in the Philadelphia area with field trips to include the duPont Winterthur Museum. Fall term.

- Art 351.**
HISTORY OF GRAPHIC ART 3 credits
Chronological examination of graphic art from its inception in the 15th century to the present. Examination of original prints from the resources of the National Gallery of Art, Lessing J. Rosenwald collection. Prerequisites: Art 205 and permission of the instructor. Written research project. Spring term.
- Music 103.**
CHORAL MUSIC 2 credits
Introduction to the theory and practice of choral music; practicum with the glee club.
- Music 205.**
INTRODUCTION TO MUSIC 3 credits
An examination of the fundamentals of music. Survey of the musical styles of western civilization through a study of representative works. Planned listening assignments.
- Music 301.**
SYMPHONIC MUSIC 3 credits
A study of symphonic literature from the baroque to the present emphasizing those composers most important in its formulation and practice. Orchestration. Score reading.
- Music 302.**
A SHORT HISTORY OF OPERA 3 credits
Music for the operatic stage from its inception to the contemporary period. Concentrated study of selected works representing the stylistic and historical development of opera.
- Music 305.**
PIANO INSTRUCTION No credit given
Private piano instruction available on campus from concert pianist Edna Bockstein.
- Music 320.**
BACH AND HANDEL 3 credits
Their historical importance in the late baroque period. A study of representative vocal, instrumental, and chamber works. Fall term.
- Music 321.**
MUSIC OF THE CLASSIC PERIOD 3 credits
A study of Western music from 1750 to the death of Beethoven. The rise and development of the classical style. Spring term.
- Music 323.**
MUSIC IN THE ROMANTIC ERA 3 credits
An intensive study of 19th century developments in music. The symphonic poem, art song, and music-drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber music forms; growth of nationalism. Fall term.
- Music 324.**
CONTEMPORARY MUSIC 3 credits
Studies in the style and technique of music in the late 19th and 20th centuries, Impressionism; neo-classicism; expressionism; electronic music. Selected compositions of Debussy, Stravinsky, Bartok, Schoenberg, Berg, and Varese will be examined in detail. Spring term.

FOREIGN LANGUAGES

BERNHARDT G. BLUMENTHAL, Ph.D., *Chairman*

Professors: Bernian, Boudreau

Associate Professors: B. Blumenthal, Brownstein, DiMarco,
Moran, Sapone, Rudnytzky

Assistant Professors: D. Blumenthal, Carrio, Dixon, Fenoaltea, Garcia-Castro,
Joseph, McCann, Mall, Morocco, Perfecki, Suarez

Director of Language Laboratory: Ronald Fisher

CLASSICAL LANGUAGES

FIRST YEAR

Fall

Theology A Elective	3
English 101	3
Latin 101	3
Greek 101	4
Mathematics or Science Option	3 or 4
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16 or 17

Spring

Philosophy 107	3
English 102	3
Latin 102	3
Greek 102	4
Mathematics or Science Option	3 or 4
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16 or 17

SECOND YEAR

Fall

Theology B Elective	3
English 205	3
Greek 202	3
Latin 202	3
Psychology 101	3
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15

Spring

Philosophy 206	3
English 206	3
Greek 204	3
Latin 204	3
Fine Arts Elective	3
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15

THIRD YEAR

Fall

Theology C Elective	3
Latin 309 or 312 or Greek 304 or 312	3
History A Elective	3
Social Science Elective	3
Elective	3
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15

Spring

Philosophy 305	3
Greek 305 or Latin 310 or 314	3
History A Elective	3
Social Science Elective	3
Elective	3
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15

FOURTH YEAR

Fall

Latin 413 or 415	3
Greek 407 or 421	3
Electives	9
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15

Spring

Philosophy Elective	3
Latin or Greek 422 or Greek 408	3
Latin 416 or 421	3
Electives	6
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15

GREEK

Greek 101-102.

ELEMENTARY GREEK

4-8 credits

An introductory study of forms and syntax; includes reading and translation exercises and frequent practice in prose composition.

Greek 202.

REVIEW GRAMMAR AND COMPOSITION

3 credits

Grammatical review; exercises in composition and selected readings. Prerequisite: Greek 102, or a passing grade in placement examination.

Greek 204.

XENOPHON AND THUCYDIDES

3 credits

Selections from the *Anabasis* and *Peloponnesian Wars*.

Greek 304.

HOMER

3 credits

Selections from the *Iliad* or *Odyssey*. Study of the epic meter and style.

Greek 305.

THE NEW TESTAMENT

3 credits

Selected passages; special attention to the forms peculiar to New Testament Greek. May be repeated for credit.

Greek 312.

LYRIC POETRY

3 credits

The lyric poets from Archilocus to Theocritus; analysis of the meters; special emphasis on Pindar's odes.

Greek 407.

PLATO

3 credits

Selections from the writings of Plato with special attention to the syntax; Platonic philosophy and contemporary life in Athens.

Greek 408.

DRAMA

3 credits

Selections from the repertory of Greek comedy or tragedy; attention to the subsequent influence of this genre on world literature. May be repeated for credit.

Greek 421.

GREEK CLASSICS IN ENGLISH

3 credits

A detailed study of the literary history of Greece; significant Greek classics read and discussed. Knowledge of Greek not required. Open to upperclassmen who desire a cultural course of this nature.

Greek 422.

HISTORY OF GREEK AND LATIN LANGUAGES

3 credits

Identical with Latin 422.

LATIN

Latin 101-102.

ELEMENTARY LATIN

3-6 credits

Thorough grounding in forms and vocabulary.

- Latin 202-204.**
INTERMEDIATE LATIN 3-6 credits
Review of elementary grammar; readings of selected prose and poetry.
- Latin 309.**
CICERO 3 credits
The works to be read will depend on the interests of the class.
- Latin 310.**
LIVY AND ROMAN HISTORIOGRAPHY 3 credits
Selected passages of Livy's *History of Rome*; study of Roman historical theory.
- Latin 312.**
HORACE AND LATIN LYRIC POETRY 3 credits
Study of the Horatian Ode; comparison with other Latin lyric poets.
- Latin 314.**
LATIN POETRY 3 credits
Selections from one or several of the Roman poets. Readings may be chosen from works of: Vergil, Catullus, Lucretius, Tibullus, Propertius, Martial, Ovid, Horace, Juvenal, and Persius. May be repeated for credit.
- Latin 413.**
ROMAN COMEDY 3 credits
Selected plays of Plautus and Terence will be read.
- Latin 415.**
PATRISTIC LATIN 3 credits
Selections from the principal Latin fathers. A brief survey of the field of patrology and its influence on the Christian way of life.
- Latin 416.**
MEDIEVAL LATIN 3 credits
Selections from the various writers from the fifth to the thirteenth centuries of the Christian era. A study of changes in Latin forms and syntax and in the meaning of words; relations of medieval Latin to the vernaculars.
- Latin 420.**
LATIN INSCRIPTIONS 3 credits
A study of Roman private life as illustrated by a wide variety of inscriptions. A survey will be made of the field of epigraphy and of modern techniques used.
- Latin 421.**
LATIN CLASSICS IN ENGLISH 3 credits
A detailed study of the literary history of Rome and the influence of Latin literature on western thought. Its indebtedness to the literature of Greece will be clearly noted. Some significant Latin classics read and discussed; knowledge of Latin not required. Open to upperclassmen who desire a cultural course of this type.
- Latin 422.**
HISTORY OF LATIN AND GREEK LANGUAGES 3 credits
Latin and Greek traced from earliest stages to their transformation into the various daughter languages of the modern world (the Romance languages and modern Greek). Reading knowledge of Latin and Greek not required.

MODERN LANGUAGES

FRENCH

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
English 101	3	English 102	3
French 101 or 202	3	French 102 or 204	3
Social Science Elective	3	Social Science Elective	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
	—		—
	15 or 16		15 or 16

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
French 305	3	French 306	3
French 308 or 311	3	French 309 or 312	3
History A Elective	3	History A Elective	3
	—		—
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
French 402 or 430	3	French 420 or 414	3
French 413 or 425	3	French 405 or 421	3
Psychology 101	3	Fine Arts Elective	3
Elective	3	Elective	3
	—		—
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
French 402 or 430	3	Philosophy Elective	3
French 413 or 425	3	French 420 or 414	3
Second language 202 or		French 405 or 421	3
300 or 400 list*	3	Second language 204 or	
Electives	6	300 or 400 list*	3
	—	Elective	3
	15		—
			15

* By independent study or by electing lower division courses, the French major will achieve sufficient competence in a second language for intermediate or, preferably, advanced courses in his senior year.

French 101-102.

ELEMENTARY FRENCH

3-6 credits

A study of the phonetics and grammar of French with graded work in reading and composition. One required hour per week in the language laboratory.

French 202.
REVIEW GRAMMAR AND COMPOSITION 3 credits
A review of French grammar with exercises in composition and selected readings.
Prerequisite: French 102, or a passing grade in the placement examination.

French 204.
INTERMEDIATE READINGS 3 credits
Readings of medium difficulty selected as an introduction to the literature and civilization of France. Prerequisite: French 202.

French 305.
ADVANCED GRAMMAR AND COMPOSITION 3 credits
Training in the use of idiomatic French and in the practical application of grammatical principles; intensive exercises in written expression and in the translation of standard English prose into French. Prerequisite: French 204.

French 306.
ADVANCED LANGUAGE AND STYLE 3 credits
Continuation of French 305 with mounting stress on refinement of phrase and oral delivery. Prerequisite: French 204.

French 308.
SURVEY OF LITERATURE I 3 credits
Readings and discussions of selected literary works from the beginnings to 1800. Prerequisite: French 204.

French 309.
SURVEY OF LITERATURE II 3 credits
Readings and discussions of selected literary works from 1800 to the present. Prerequisite: French 204.

French 311.
CIVILIZATION I (ADVANCED CONVERSATION) 3 credits
A survey of the political, social, intellectual, scientific and artistic development of France from earliest times to 1900. Lectures and readings serve as a basis for oral practice. Prerequisite: French 204.

French 312.
CIVILIZATION II (ADVANCED CONVERSATION) 3 credits
A survey of the geography, history, institutions and artistic and cultural life of modern France. Lectures and readings serve as a basis for oral practice. Prerequisite: French 204.

French 402.
MODERN NOVEL 3 credits
A study of the novels of Proust, Gide, Bernanos, Giono, Malraux, Sartre and Camus. Prerequisite: French 204.

French 405.
OLD FRENCH LANGUAGE AND LITERATURE 3 credits
The history of the formation of the French language, with special attention to the phonological and morphological development from Latin. Literary study, using texts in the original, of Alexis, Roland, Guigemar, Aucassin, Vergi and the poetry of Villon. Prerequisite: French 204.

- French 413.**
SIXTEENTH-CENTURY LITERATURE 3 credits
Readings and reports on works of representative authors of the sixteenth and also the seventeenth centuries. Prerequisite: French 204.

French 414.
EIGHTEENTH-CENTURY LITERATURE 3 credits
Readings and reports on works of representative authors of the eighteenth century. Prerequisite: French 204.

French 420.
MODERN THEATRE 3 credits
A study of the plays of Claudel, Cocteau, Giraudoux, Anouilh, Montherlant, Sartre, Camus, Beckett, Ionesco and Genet. Prerequisite: French 204.

French 421.
MODERN POETRY 3 credits
A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present. Prerequisite: French 204.

French 425.
NINETEENTH-CENTURY NOVEL 3 credits
A study of the novels of Constant, Stendhal, Balzac, Flaubert, Fromentin, Zola and Huysmans. Prerequisite: French 204.

French 430.
CLASSICAL THEATRE 3 credits
A study of the plays of Corneille, Moliere and Racine. Prerequisite: French 204.

French 440.
HONORS SEMINAR 3 credits
Tutorial conferences, papers on selected topics, and experience in classroom teaching. Prerequisite: approval of area chairman.

GERMAN

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
English 101	3	English 102	3
German 101 or 202	3	German 102 or 204	3
Social Science Elective	3	Social Science Elective	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
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	15 or 16		15 or 16

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
German 202 or 304	3	German 204 or 305	3
German 401	3	German 402	3
History A Elective	3	History A Elective	3
	<hr/>		<hr/>
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
German 405	3	German 313	3
German 319	3	German 320	3
Psychology 101	3	Fine Arts Elective	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
German 310 or 315	3	Philosophy Elective	3
German 420	3	German 311	3
Second language 202 or		German 421	3
300 or 400 course*	3	Second language 204 or	
Electives	6	300 or 400 course*	3
	<hr/>	Elective	3
	15		<hr/>
			15

* By independent study or by electing lower division courses, the German major will achieve sufficient competence in a second language for intermediate or, preferably, advanced courses in his senior year.

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German 101-102.

ELEMENTARY GERMAN

3-6 credits

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Weekly audio-oral laboratory assignments.

German 202.

REVIEW GRAMMAR AND COMPOSITION

3 credits

Grammatical review, exercise in composition, and selected readings. Prerequisite: German 102, or a passing grade in German placement examination. Weekly audio-oral laboratory assignments.

German 204.

INTERMEDIATE READINGS

3 credits

Selected readings of moderate difficulty from writers of the eighteenth, nineteenth, and twentieth centuries with a view to introducing the student to the literature and civilization of the country. Prerequisite: German 202.

German 304-305.

CONVERSATION AND COMPOSITION

3-6 credits

Extensive practice in the comprehension of spoken German; conversation and composition. Continued use of the language laboratory. Prerequisite: German 204.

German 306.

READINGS IN SCIENTIFIC GERMAN PROSE

3 credits

Scientific readings selected with a view towards building a technical vocabulary. Open to science majors as an elective—as a substitute for German 204. Prerequisite: German 202.

- German 310-311.**
ADVANCED ORAL PRACTICE 3-6 credits
Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction. Prerequisite: German 204.
- German 313.**
MEDIEVAL LITERATURE 3 credits
Study and discussion of German literature from its beginnings to the end of the medieval period. Prerequisite: German 204.
- German 315.**
LITERATURE OF THE 15th AND 16th CENTURIES 3 credits
Study and discussion of the literature of the 15th and 16th centuries from the end of the medieval period to the beginnings of the baroque. Prerequisite: German 204.
- German 319.**
LITERATURE OF THE 17th AND 18th CENTURIES 3 credits
Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller. Prerequisite: German 204.
- German 320.**
THE CLASSICAL AGE 3 credits
Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller. Prerequisite: German 204.
- German 401.**
LITERATURE OF THE 19th CENTURY 3 credits
Study and discussion of the literature of romanticism, realism, and naturalism. Prerequisite: German 204.
- German 402.**
LITERATURE OF THE 20th CENTURY 3 credits
Study and discussion of modern German literature from 1880 to the present. Prerequisite: German 204.
- German 405.**
HISTORY OF THE GERMAN LANGUAGE 3 credits
The German language from its beginning to the present; particularly, the development of sounds, vocabulary and the formation of standard High German. Prerequisite: German 204.
- German 410.**
OLD HIGH GERMAN 3 credits
Descriptive and historical analysis of Old High German texts with their dialect features. Prerequisite: German 405.
- German 411.**
MIDDLE HIGH GERMAN 3 credits
Descriptive and historical analysis of Middle High German texts. Readings in Middle High German literature. Prerequisite: German 405.
- German 420-421.**
SEMINAR 3-6 credits
Topics of investigation vary from semester to semester. Readings, reports, and

discussion in a selected genre (novel, drama, lyric, short story). Extensive seminar paper. Prerequisite: permission of the chairman.

ITALIAN

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
English 101	3	English 102	3
Italian 101 or 202	3	Italian 102 or 204	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
Social Science Elective	3	Social Science Elective	3
	<hr/>		<hr/>
	15 or 16		15 or 16

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
Italian 202 or 305	3	Italian 204 or 306	3
Italian 308	3	Italian 309	3
History A Elective	3	History A Elective	3
	<hr/>		<hr/>
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Italian 413	3	Italian 414	3
Italian 422	3	Italian 420	3
Psychology 101	3	Fine Arts Elective	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Italian 402	3	Philosophy Elective	3
Italian 421	3	Italian 405	3
Second language 202 or		Italian 423	3
300 or 400 course*	3	Second language 204 or	
Electives	6	300 or 400 course*	3
	<hr/>	Elective	3
	15		<hr/>
			15

* By independent study or by electing lower division courses, the Italian major will achieve sufficient competence in a second language for intermediate or, preferably, advanced courses in his senior year.

Italian 101-102.**ELEMENTARY ITALIAN****3-6 credits**

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Intended for those who are beginning the study of Italian. One required hour per week in language laboratory.

Italian 202.**REVIEW GRAMMAR AND COMPOSITION****3 credits**

Grammatical review, exercises in composition and selected readings. Prerequisite: Italian 102, or a passing grade in the Italian placement examinations.

Italian 204.**INTERMEDIATE READINGS****3 credits**

Selected readings of intermediate difficulty from writers of the nineteenth and twentieth centuries with a view to introducing the student to the literature and civilization of the country.

Italian 305.**ADVANCED GRAMMAR AND COMPOSITION****3 credits**

Training in the use of correct idiomatic Italian and in the practical application of grammatical principles; exercises in written expression and in translating standard English prose into Italian. Prerequisite: Italian 204.

Italian 306.**STYLISTICS****3 credits**

Includes intensive oral exercises with a view towards improving the student's pronunciation and increasing his active vocabulary. Students make frequent use of audio aids. Prerequisite: Italian 204.

Italian 308.**SURVEY OF ITALIAN LITERATURE I****3 credits**

Designed to provide a fundamental knowledge of Italian literature from its origins to the sixteenth century, with particular stress on Dante, Petrarca and Boccaccio, and their contribution to Italian humanism and the Renaissance. Prerequisite: Italian 204.

Italian 309.**SURVEY OF ITALIAN LITERATURE II****3 credits**

A comprehensive study of Italian literary currents from the "Marinismo" to D'Annunzio and Pirandello through neo-classicism, romanticism, and futurism, with comparative references to European literature. Prerequisite: Italian 204.

Italian 402.**MODERN AUTHORS****3 credits**

Includes a survey of Italian narrative and poetic production in the late nineteenth century and in the first half of the twentieth century. Prerequisite: Italian 204.

Italian 405.**HISTORY OF THE ITALIAN LANGUAGE****3 credits**

Deals with the Italian language in its origins in the seventh century up to modern times. By means of a very few philologic and glottologic rules, the student will acquire a knowledge of the origins and transformation of Italian from Vulgar Latin, in chronological progression. Prerequisite: Italian 204.

Italian 413.

READING LIST I

3 credits

Gives an acquaintance with excerpts of Italian writers including the poets of the twelfth and thirteenth centuries, such as Cino da Pistoia, Guido Guinizelli, Cielo D'Alcamo, Jacopo da Lentini, Guido Cavalcanti, Dante Alighieri, Francesco Petrarca, Angelo Polizano, Lorenzo de Medici, and others. Prerequisite: Italian 204.

Italian 414.

READING LIST II

3 credits

Italian poems of knighthood, with particular emphasis on *L'Orlando Furioso* by Ludovico Ariosto and *La Gerusalemme Liberata* by Torquato Tasso; reference to the antecedents of this literary genre. Prerequisite: Italian 204.

Italian 420.

SEMINAR: MANZONI

3 credits

A comprehensive study of the author's major work and Italy's greatest novel, *I Promessi Sposi*; consideration of the author's two historic poems, "L'Adelchi" and "Il Conte di Carmagnola."

Italian 421.

SEMINAR: LEOPARDI

3 credits

A study of the works of Leopardi including "Le Operette Morali," "I Canti," and "I Pensieri."

Italian 422.

DANTE

3 credits

A comprehensive study of Dante's *Divine Comedy*, viewed in its different aspects: an exciting adventure story, an exposition of the poet's political action and feelings, a love story, a compendium of history, science and theology, and, finally, a program of political organization. Prerequisite: Italian 308.

Italian 423

HISTORY OF THE ITALIAN THEATRE

3 credits

A chronological survey of Italian theatre, from the religious medieval representations in the open to modern realistic drama. Special attention to Alfieri's tragedies and their influence on Italian "Risorgimento." Prerequisite: Italian 308 and 309.

RUSSIAN

FIRST YEAR

Fall

Theology A Elective	3
English 101	3
Social Science Elective	3
Mathematics or	
Science Option	3 or 4
Russian 101	3
—	—

15 or 16

Spring

Philosophy 107	3
English 102	3
Social Science Elective	3
Mathematics or	
Science Option	3 or 4
Russian 102	3
—	—

15 or 16

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
Psychology 101	3	Fine Arts Elective	3
Russian 202	3	Russian 204	3
Russian 304 or 310	3	Russian 305 or 311	3
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
History A Elective or 425	3	History A Elective or 426	3
Russian 405	3	Russian 406	3
Russian 431	3	Russian 432	3
Elective	3	Elective	3
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Russian 402	3	Philosophy Elective	3
Russian 420	3	Russian 403	3
Second Language 202 or 305*	3	Russian 421	3
Electives	6	Second Language 204 or 306*	3
	15	Elective	3
			15

* By independent study or by electing lower division courses, the Russian major will achieve sufficient competence in a second language for intermediate or, preferably, advanced courses in his senior year.

Russian 101-102.

ELEMENTARY RUSSIAN

3-6 credits

Audio-lingual approach; regular exercises in language laboratory stress fundamental structural features of the contemporary spoken language.

Russian 202-204.

INTERMEDIATE RUSSIAN

3-6 credits

Second part of two year program based on audio-lingual principles. Continued emphasis on language laboratory work.

Russian 304-305.

ADVANCED GRAMMAR AND CONVERSATION

3-6 credits

Advanced grammar lectures, controlled conversations, and the reading of short stories and of a Russian newspaper. Prerequisite: Russian 204.

Russian 310-311

ADVANCED READINGS AND COMPOSITION

3-6 credits

Selected readings of 19th and 20th century Russian prose and verse. Compositions based on readings. Prerequisite: Russian 204.

Russian 402-403.**SOVIET RUSSIAN LITERATURE**

3-6 credits

Socialist realism as a doctrine of art and literature in the Soviet Union. Readings from Gorky, Mayakovsky, Babel, Olesha, Leonov, Zamyatin, Zoshchenko, Sholokhov, Ilf and Petrov, Simonov, Pasternak, Yevtushenko, Solzhenitsyn and others.

Russian 405.**HISTORY OF THE RUSSIAN LANGUAGE**

3 credits

Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian. Prerequisite: Russian 204.

Russian 406.**OLD RUS' LITERATURE**

3 credits

Selected readings from epic, annalistic, hagiographic literature from the 11th to the 17th centuries. The Lay of Igor's Campaign. The beginnings of fiction. Prerequisite: Russian 405.

Russian 420**SEMINAR: RUSSIAN LITERATURE**

3 credits

From the beginnings to the present. Topics of investigation vary from year to year. Research paper required.

Russian 421.**SEMINAR: RUSSIAN LANGUAGE**

3 credits

Discussion of problems of synchronic and diachronic interest. Experience in classroom teaching. Research paper required.

Russian 431-432.**RUSSIAN LITERATURE OF THE 19th CENTURY**

3-6 credits

Romanticism and realism in Russian literature. Readings from Pushkin, Griboedov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.

SPANISH**FIRST YEAR***Fall*

Theology A Elective	3
English 101	3
Spanish 101 or 102	3
Social Science Elective	3
Mathematics or	
Science Option	3 or 4

15 or 16

Spring

Philosophy 107	3
English 102	3
Spanish 102 or 204	3
Social Science Elective	3
Mathematics or	
Science Option	3 or 4

15 or 16

SECOND YEAR*Fall*

Theology B Elective	3
English 205	3
Spanish 304	3
History A Elective	3
Psychology 101	3

15

Spring

Philosophy 206	3
English 206	3
Spanish 305	3
History A Elective	3
Fine Arts Elective	3

15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Spanish 308	3	Spanish 309	3
Spanish 300-400 list	3	Spanish 300-400 list	3
Second Language 101-102	3	Second Language 102-204	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Spanish 400 list	6	Philosophy Elective	3
Electives	9	Spanish 400 list	6
	<hr/>	Electives	6
	15		<hr/>
			15

Spanish 101-102

ELEMENTARY SPANISH

3-6 credits

Designed to provide a fundamental capacity in conversation; audio-oral method employed. Grammar is presented strictly on a functional basis to facilitate speech and comprehension. One required hour per week in the language laboratory.

Spanish 202

REVIEW GRAMMAR AND COMPOSITION

3 credits

Grammatical review, exercises in composition and selected readings. Prerequisite: Spanish 102; or a passing grade in the Spanish placement examination. One required hour per week in the language laboratory.

Spanish 204.

INTERMEDIATE READINGS

3 credits

Selected readings of intermediate difficulty from writers of the nineteenth and twentieth centuries with a view to introducing the student to the literature and civilization of the country. One required hour per week in the language laboratory.

Spanish 300.

SURVEY OF SPANISH CIVILIZATION

3 credits

A cultural and historic study of Spain's past, examining the effects of Rome and Islam, the period of Spanish domination and later decline, and the status of present-day Spain. Prerequisite: Spanish 204.

Spanish 301.

SURVEY OF SPANISH-AMERICAN CIVILIZATION

3 credits

A cultural and historic presentation of the diversity of Latin America from the Aztecs and Incans to the Conquest, the viceroyalties, and the establishment of independent nations; course concludes with a thorough study of today's Latin America. Prerequisite: Spanish 204.

Spanish 304.

ADVANCED CONVERSATION

3 credits

Includes intensive oral exercises with a view towards improving the student's pronunciation and increasing his active vocabulary. Students make frequent use of audio aids. Prerequisite: Spanish 204.

Spanish 305.**ADVANCED GRAMMAR AND COMPOSITION****3 credits**

Training in the use of correct idiomatic Spanish and in the practical application of grammatical principles; intensive exercises in written expression and in translating of standard English prose into Spanish. Prerequisite: Spanish 204.

Spanish 306.**COMMERCIAL SPANISH****3 credits**

Intended to acquaint the student with commercial Spanish terminology combined with lectures, readings and translations of business letters. Introduction of new vocabulary used in the business world with emphasis on Spanish-American idiomatic expressions. Prerequisite: Spanish 204.

Spanish 308**SURVEY OF SPANISH LITERATURE I****3 credits**

An introduction to the study of Spanish literature which combines reading and discussion of the earliest works from the middle ages to the masters of drama of the Golden Age. Prerequisite: Spanish 204.

Spanish 309.**SURVEY OF SPANISH LITERATURE II****3 credits**

A course in readings and discussions of the authors from the eighteenth century to the contemporary period, including the neo-classic and romantic eras, and the modern novelists and poets.

Spanish 310**SURVEY OF SPANISH AMERICAN LITERATURE****3 credits**

Reading and discussion of works from the colonial period to the 20th century. Prerequisite: Spanish 204.

Spanish 402**READING LIST: THE SPANISH NOVEL OF THE 19th CENTURY****3 credits**

The development and tendencies in the modern Spanish novel as indicated in the works of Valera, Pereda, Palacio Valdes, Alarcon, Galdos, Pardo Bazan and others. Prerequisite: Spanish 204.

Spanish 405.**HISTORY OF THE SPANISH LANGUAGE****3 credits**

Study of the formation of the language, its evolution and phonetic changes from Latin to the present modern pronunciations. Reading and discussions of the early Spanish texts and the development of the language in the early period. Prerequisite: Spanish 204.

Spanish 413.**READING LIST: THE SPANISH NOVEL OF THE 20th CENTURY****3 credits**

Reading and discussions of the contemporary Spanish authors, their ideology and philosophies: Blasco Ibañez, Pio Baroja, Valle Inclan, Cela, Gironella, Laforet and others. Prerequisite: Spanish 204.

Spanish 414.**READING LIST: THE SPANISH AMERICAN NOVEL****3 credits**

Readings and discussions on the sociological and the literary aspects of the leading Spanish American authors and the development of their earliest works. Prerequisite: Spanish 204.

Spanish 415.

READING LIST: CERVANTES

3 credits

Readings and discussions of the *Galatea*, *Persiles*, theatre, and *novelas ejemplares*, as well as *Don Quijote*. Prerequisite: Spanish 204.

Spanish 420.

SEMINAR: DRAMA OF THE GOLDEN AGE

3 credits

Readings, reports and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderón, Alarcón and others. Prerequisite: Spanish 204.

Spanish 421.

SEMINAR: THE NOVEL IN THE GOLDEN AGE

3 credits

An extensive study based on readings, reports and discussions on the evolution of the Spanish picaresque novel: *Lazarillo de Tormes*, *Guzmán de Alfarache* and others. Prerequisite: Spanish 204.

Spanish 422.

LITERATURE OF THE MIDDLE AGES

3 credits

Emphasis is placed on such works as *Cantar de Mio Cid*, *Poema de Fernan Gonzalez*, and *Amadis de Gaula*; authors include Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Marques de Santillana, and los Manrique. Prerequisite: Spanish 204.

Spanish 423.

RENAISSANCE LITERATURE

3 credits

The works of Boscan, Garcilaso, Encina, Nebrija, Torres Naharro, and Lope de Rueda, and such works as *Tirant lo Blanc*, *Celestina*, and *Lazarillo de Tormes* form the basis of this period of literary activity. Prerequisite: Spanish 204.

Spanish 424.

ROMANTICISM

3 credits

A study of the early nineteenth century analyzes the works of such authors and poets as Larra, Duque de Rivas, Zorilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer. Prerequisite: Spanish 204.

Spanish 425.

POETRY OF THE 19th AND 20th CENTURIES

3 credits

Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered. Prerequisite: Spanish 204.

Spanish 440.

SPANISH HONORS SEMINAR

3 credits

Tutorial conferences, papers, discussions, and experience in classroom teaching. Prerequisite: approval of the department chairman.

COMPARATIVE LITERATURE

Comparative Literature 201.

SURVEY OF WESTERN LITERATURE I

3 credits

Lectures on masterpieces of western literature from its beginnings to the end of the classical period. Course investigates the western author's attempt to establish a consistent world view and the emergence of specific literary forms: the epic, the narrative, the drama. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.

Comparative Literature 203.

SURVEY OF WESTERN LITERATURE II

3 credits

Lectures on masterpieces of western literature from the end of the classical period to the present day. Course investigates relationship of the modern author to reality and the transformations in his world-view and in specific literary forms. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.

Comparative Literature 301.

CLASSICISM IN WESTERN LITERATURE

3 credits

Study and discussion of the literature of the classical age in western tradition. Designed to enable the student to discover the essential components of classicism in all the literatures studied and the significance of national variations. Team-taught.

Comparative Literature 303.

ROMANTICISM IN WESTERN LITERATURE

3 credits

Study and discussion of the literature of the romantic period in western tradition. Designed to enable the student to discover the essential components of romanticism in all the literatures studied and the significance of national variations. Team-taught.

LINGUISTICS**English 306.**

INTRODUCTION TO DESCRIPTIVE LINGUISTICS

3 credits

Nature of language; modern methods of linguistic analysis. Social and cultural background of language.

English 308.

INTRODUCTION TO HISTORICAL LINGUISTICS

3 credits

Theories and techniques dealing with the development of language through history. Language change. Comparative method.

HISTORYJOSEPH P. O'GRADY, Ph.D., *Chairman**Professor: Donini**Associate Professors: Donaghy, Hennessy, McCarthy, O'Grady, Rossi, Weinstein**Assistant Professors: Cziraky, Fair, Labunka**Instructors: Pinto, Sinkoff**Lecturer: Lukacs***FIRST YEAR***Fall*

Philosophy 107	3
History A Elective	3
Language 101	3
English 101	3
Mathematics or	
Science Option	3
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Spring

Theology A Elective	3
History A Elective	3
Language 102	3
English 102	3
Mathematics or	
Science Option	3
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SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 206	3	Theology B Elective	3
Social Science Elective	3	Social Science Elective	3
Psychology 101	3	Fine Arts Elective	3
Language 202	3	Language 204	3
History A Elective	3	History A Elective	3
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 305	3	Theology C Elective	3
English 205	3	English 206	6
Elective*	3	Elective*	3
History B Electives	6	History B Electives	6
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy Elective	3	Social Science Elective	3
Social Science Elective	3	Electives	6
Elective	3	History B Elective	3
History B Elective	3	History B or C Elective**	3
History B or C Elective**	3		15
	15		

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* The department recommends an advanced language course for history majors.

** History majors planning on graduate school are advised to select History 471-472.

SECTION A: INTRODUCTORY COURSES

History 201-202.

INTRODUCTION TO EUROPEAN HISTORY

3-6 credits

Topics in the history and geography of Europe from the barbarian invasions to the fall of the Third Reich.

History 209-210.

THE ANCIENT WORLD

3-6 credits

A study of the ancient world with special emphasis on the politics and culture of Greece and Rome.

History 211-212.

MEDIEVAL EUROPE

3-6 credits

The rise of Christian Europe from the decline of the Roman Empire to the Age of Discovery.

History 214-215.

MODERN EUROPE

3-6 credits

The history of Europe (1500 to 1960) centered on political and social developments in Germany and France until the rise of Russia as a world power.

History 219-220.

THE UNITED STATES

3-6 credits

The shaping of the nation from its earliest settlement to its present position of world leadership and an exploration of the role of minority groups in this development.

History 230-231.

SPAIN AND PORTUGAL IN AMERICA

3-6 credits

An introduction to the history of Latin America with emphasis on the European origin of colonial and republican institutions.

History 240-241.

ASIA AND THE EMERGING NATIONS

3-6 credits

A study of selected areas in Asia and Africa and their interrelations with the west. Required for history-education majors.

SECTION B:

REGIONAL AND TOPICAL STUDIES

History 329-330.

AMERICAN COLONIES AND REVOLUTION

3-6 credits

A survey of the colonial place in the British Empire with emphasis on influential social, economic, intellectual, and political factors. Second semester: A survey of the period 1763 to 1789.

History 331-332.

THE NATIONAL PERIOD

3-6 credits

The development of political, social, and economic institutions in the United States from the Constitution to the Jacksonian period.

History 333-334.

CIVIL WAR AND RECONSTRUCTION (1850-1877)

3-6 credits

Sectionalism and reconstruction in both North and South, stressing the causes, personalities, and military events of the disruption and reunion of the United States.

History 338-339.

THE HISTORY OF BLACK AMERICA

3-6 credits

A survey of the Negro experience in America to include social, economic, political and religious trends.

History 340-341.

AFRICAN HISTORY

3-6 credits

A political, social, and cultural study of developments south of the Sahara from the neolithic period to the present.

History 435-436.

NINETEENTH CENTURY AMERICAN SOCIAL AND CULTURAL HISTORY

3-6 credits

Topics in the expansion and settlement of the nation with emphasis on the shaping of the American character.

History 437-438.

AMERICA IN THE 20th CENTURY

3-6 credits

Political and diplomatic changes in the United States since 1900.

History 349-350.
RENAISSANCE AND REFORMATION 3-6 credits
Topics illustrating the economic, social, religious and political changes in western society from 1400 to 1600.

History 351-352.
MODERN BRITAIN SINCE 1603 3-6 credits
A treatment of the broad social, political, and economic trends in the shaping of modern Britain.

History 353-354.
THE FRENCH REVOLUTION AND THE NAPOLEONIC ERA 3-6 credits
Origins and consequences of the revolution of 1789 both in France and in Europe.

History 355-356.
GERMANY SINCE 1848 3-6 credits
The political, social, and cultural history of Germany from the movement for unification to the present.

History 358-359.
ABSOLUTISM AND ENLIGHTENMENT 3-6 credits
A study of European culture from early 17th century until 1763 with emphasis upon the development of political and social institutions and important changes in intellectual history.

History 367-368.
HISTORY OF EAST CENTRAL EUROPE 3-6 credits
A survey of the development of national consciousness and of national states in east central Europe.

History 371-372.
DIVIDED CHRISTENDOM 3-6 credits
The interrelation of political, cultural and theological differences between Rome and Byzantium and the failure of ecumenical efforts to unite Christianity, 1054 to 1517.

History 425-426.
HISTORY OF RUSSIA 3-6 credits
The development of the Russian empire to the end of the 19th century; the rise of Soviet power after the revolution.

History 444-445.
THE FAR EAST IN THE 19th AND 20th CENTURIES 3-6 credits
Concentration on China and Japan and their interaction and development since their contact with the west.

History 447-448.
ASIAN STUDIES 3-6 credits
Visiting Asian professors from India, Korea, Pakistan, and China conduct group discussions concerning the history, culture, and contemporary life of their countries.

SECTION C: SEMINARS

History 471 through 476.
SEMINAR 3-6 credits
An introduction to the aims and methods of the historian through the preparation of papers on selected topics in the field specified—American, European or British—along with discussion in small group meetings or tutorial conferences.

MATHEMATICS

SAMUEL J. WILEY, M.A., Chairman

Professors: Albright, Connelly

Assistant Professors: C. Hoffmann, Mooney, O'Neill, Sweetser

Instructor: Zampogna

Lecturer: R. Hoffmann

FIRST YEAR

Fall

Theology A Elective	3
Mathematics 106*	4
Chemistry 101 or	
Physics 111	4
English 101	3
Language 101	3
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17

Spring

Philosophy 107	3
Mathematics 216	4
Chemistry 102 or	
Physics 112	4
English 102	3
Language 102	3
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17

SECOND YEAR

Fall

Theology B Elective	3
Mathematics 201	3
Physics 211 or 213	4
English 205	3
Language 202	3
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16

Spring

Philosophy 206	3
Mathematics 217	4
Physics 212 or Elective	4
English 206	3
Language 204	3
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17

THIRD YEAR

Fall

Theology C Elective	3
Mathematics 310	3
Mathematics 312	3
History or Social	
Science Option	3
Elective	3
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15

Spring

Philosophy 305	3
Mathematics Electives	6
History or Social	
Science Option	3
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15

FOURTH YEAR

Fall

Mathematics Electives	6
Electives	9
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15

Spring

Philosophy Elective	3
Mathematics Electives	6
Electives	6
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15

* Students may begin with Mathematics 103. Qualified students are invited to begin with Mathematics 216 or 217.

- Mathematics 101.**
PROBABILITY AND MATRICES 3 credits
Sets; logic; counting procedures; probability; linear systems; matrices.
- Mathematics 102.**
INTRODUCTION TO CALCULUS 3 credits
The real number system; elementary functions; differential and integral calculus.
- Mathematics 103.**
ALGEBRA AND TRIGONOMETRY 4 credits
Sets; the real number system linear systems; matrices; logarithmic, exponential and trigonometric functions; theory of equations.
- Mathematics 106.**
CALCULUS AND ANALYTIC GEOMETRY I 4 credits
Functions; limits and continuity; differentiation of algebraic functions; maxima and minima; curve tracing, velocity and acceleration; integration with applications to areas, volumes, surfaces and work; the fundamental theorem of the calculus.
- Mathematics 121.**
COMPUTER SCIENCE I 3 credits
Basic programming and program structure; data representation; survey of computers, languages, systems and applications; computer solution of several numerical and nonnumerical problems.
- Mathematics 122.**
COMPUTER SCIENCE II 3 credits
Computer systems organization, machine language, logic design, micro-programming, interpreters; symbolic coding, assembly systems, macro-definition, generation; program segmentation and linkage; systems and utility programs. Prerequisite: Mathematics 121 or Physics 315.
- Mathematics 201.**
LINEAR ALGEBRA 3 credits
Linear equations and matrices; real vector spaces; linear transformations and matrices; determinants; eigenvalues and eigenvectors. Prerequisite: Mathematics 102 or 106.
- Mathematics 216.**
CALCULUS AND ANALYTIC GEOMETRY II 4 credits
Differentiation and integration of transcendental functions; techniques of integration; improper integrals; conic sections; polar coordinates. Prerequisite: Mathematics 106.
- Mathematics 217.**
CALCULUS AND ANALYTIC GEOMETRY III 4 credits
Linear algebra; vector functions; partial differentiation; multiple integration; infinite series; Taylor expansions. Prerequisite: Mathematics 216.
- Mathematics 308.**
DIFFERENTIAL EQUATIONS 3 credits
Differential equations of the first order; linear differential equations of higher order; Laplace transforms; series solutions; applications to the physical sciences. Prerequisite: Mathematics 217.

Mathematics 310.**ADVANCED CALCULUS**

3 credits

Calculus of vector valued functions; Green, Gauss and Stokes theorems; infinite series. Prerequisite: Mathematics 217.

Mathematics 312.**MODERN ALGEBRA**

3 credits

Sets and mappings; groups, rings and homomorphisms; Sylow theorems; quotient structures; polynomial rings; ideals.

Mathematics 350.**PROJECTIVE GEOMETRY**

3 credits

Axioms systems; duality; theorems of Desargues and Pappus; relationship between projective spaces and vector spaces; collineations; conic sections; theorem of Pascal; pole-polar duality. Prerequisite: Mathematics 312.

Mathematics 430.**TOPOLOGY**

3 credits

Topological spaces; subspaces, product spaces, quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: Mathematics 310.

Mathematics 450.**NUMERICAL ANALYSIS**

4 credits

Solution of algebraic, transcendental and differential equations; difference equations; matrix inversion; Gauss and Chebyshev functions. Prerequisite: Mathematics 310.

Mathematics 460.**PROBABILITY**

3 credits

Probability spaces; random variables; discrete and continuous distributions; mass and density functions; moment generating functions; expectation; limit theorems. Prerequisite: Mathematics 310.

Mathematics 470.**SPECIAL FUNCTIONS**

3 credits

Generating functions; orthogonal systems of functions; Legendre, Hermite, Bessel, Fourier, Gamma and Beta functions; partial differential equations. Prerequisites: Mathematics 308 and 310.

Mathematics 475.**REAL VARIABLES**

3 credits

Real number system; Lebesgue measure; Lebesgue integration; differentiation; general measure and integration theory. Prerequisite: Mathematics 310.

Mathematics 480.**LINEAR ALGEBRA**

3 credits

Finite dimensional vector spaces and linear mappings; dual spaces; matrix algebras; invariant factors and elementary divisors; unitary spaces; the spectral theorem for normal operators; linear groups. Prerequisite: Mathematics 312.

Mathematics 485.**COMPLEX VARIABLES**

3 credits

Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem; power series; infinite series; calculus of residues; contour integration; conformal mapping. Prerequisite: Mathematics 310.

MILITARY SCIENCE

COLONEL CLARENCE W. CYR, M.A., *Chairman*

Military Science 101-102.

BASIC FRESHMAN MILITARY SCIENCE I

3 credits

Leadership: Psychology and principles of leadership. *Required only of freshmen enrolled in ROTC.* Team-taught by members of psychology and military science departments.

Concepts of National Security: The role of force in international affairs, the national security structure in the U. S., and a study of the principles of war in selected military operations in world history. *Required of all freshmen enrolled in ROTC.* Team-taught by political science and military science departments.

Military Science 201-202.

BASIC SOPHOMORE MILITARY SCIENCE II

3 credits

A continuation of MS I: American Military History; Map and Aerial Photograph Reading; Introduction to Artillery Tactics and Techniques; Counterinsurgency; School of the Soldier; Hand to Hand Combat; Physical Training; Exercise of Command. Two hours of lecture, one hour of drill; two terms.

Military Science 301-302.

ADVANCED COURSE MILITARY SCIENCE III

3-6 credits

Provides basic military education and, with other college disciplines, develops individual character and attributes essential to an officer: Leadership; Military Teaching Principles; Artillery Tactics and Techniques; Infantry Tactics, Techniques, and Communications; and Pre-Camp Orientation. MS III students will exercise command.

Military Science 401-402.

ADVANCED COURSE MILITARY SCIENCE IV

3-6 credits

A continuation of MS III. Develops an appreciation of command and staff responsibilities; Army Administration; Military Law; Operations; Logistics; The Role of the U. S. in World Affairs; Field Artillery Tactics and Techniques; and Service Orientation. MS IV students will exercise command. Flight training (light aviation) is available to a limited number of cadets on an extracurricular basis (70 hours).

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PHILOSOPHY

JOSEPH C. MIHALICH, Ph.D., *Chairman*

Professors: Mihalich, Naughton

Associate Professors: Fitzgerald, Gibbons, Pierzchalski, Strosser

Assistant Professors: Allen, Fallon, Farnon, Kerlin, Lashchyk, Macoretta, Phillips, Tully

Instructors: Fay, Janik, Kalkhof, Lowry

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 107	3	Theology A Elective	3
English 101	3	English 102	3
Language 101	3	Language 102	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
Social Science Elective	3	Social Science Elective	3
	—		—

15 or 16

15 or 16

SECOND YEAR

Fall

Theology B Elective	3
English 205	3
Language 202	3
Psychology 101	3
Economics 111	3
	15

Spring

Philosophy 206	3
English 206	3
Language 204	3
Fine Arts Elective	3
Economics 112	3
	15

THIRD YEAR

Fall

Philosophy 305	3
Philosophy 302	3
Philosophy 413	3
History A Elective	3
Elective	3
	15

Spring

Theology C Elective	3
Philosophy 315	3
Philosophy 414	3
History A Elective	3
Elective	3
	15

FOURTH YEAR

Fall

Philosophy Electives	6
Electives	9
	15

Spring

Philosophy 425	3
Philosophy Electives	6
Electives	6
	15

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Philosophy 107.

LOGIC

3 credits

An introduction to the science of correct thinking as reflected in the processes of definition, construction of syllogisms, and analysis of common fallacies. The course includes both traditional and modern approaches to logic.

Philosophy 206.

PHILOSOPHIES OF MAN

3 credits

An investigation of the nature and powers of man, the origin and destiny of the human soul, and the nature of human knowledge and human freedom, with emphasis both on the Aristotelian-Thomistic approach and contemporary variations. Prerequisite: Philosophy 107.

Philosophy 302

PROBLEMS OF KNOWLEDGE

3 credits

A survey of the nature and limits of human knowledge as presented by the major philosophers. Required of all philosophy majors; open to others approved by the chairman.

Philosophy 305

METAPHYSICS

3 credits

An analysis of the broadest and most fundamental aspects of reality and knowledge as conceived by the major philosophers, including a discussion of the existence and nature of God. Prerequisite: Philosophy 206.

Philosophy 315.**ADVANCED MORAL PHILOSOPHY**

An inquiry into the major ethical theories that have contributed in formulating the moral conscience of the west. Students will be expected to present analytic papers on selected thinkers as well as to read and discuss the primary texts of these thinkers. *Required of all philosophy majors; open to others approved by the chairman.*

Philosophy 400.**PHILOSOPHIES OF GOD**

3 credits

Philosophical approaches to the existence and nature of God in the writings of classical philosophers from the ancients through the contemporaries. Themes include theism, atheism, agnosticism, pantheism, and panentheism.

Philosophy 401.**AESTHETICS**

3 credits

A consideration of the nature of art, art activity, art appreciation, and the function of art, with special reference to art history. The course seeks to provide the student with an elementary basis for forming a critical judgment with respect to art (and fine art) in general and specific works of art in particular.

Philosophy 402**EASTERN PHILOSOPHY**

3 credits

A comparative study of Asian thought with special emphasis on philosophies originating in India and China. Logical, metaphysical, epistemological, ethical, and political problems will be used as a framework for the study.

Philosophy 403.**AMERICAN PHILOSOPHY**

3 credits

A study of vital American thought in three periods: New England transcendentalism; the classical group (Pierce, James, Royce, Santayana, Dewey, Whitehead); and the contemporary movements as seen in the philosophies of Perry, Hocking, Mead, Sellars, Lovejoy, and Brightman. The course will discuss American thought in its relationship to pragmatism, process philosophy, and personalism.

Philosophy 405.**PHENOMENOLOGY AND EXISTENTIALISM**

3 credits

An approach to contemporary existentialism through the philosophies of Hegel, Kierkegaard, Nietzsche, Husserl, and Heidegger. The course will study in detail the existentialist philosophies of Sartre, Marcel, Jaspers and Unamuno, and will investigate the religious existentialism of Buber and Tillich, and the literary existentialism of Camus and Simone de Beauvoir.

Philosophy 406.**PHILOSOPHY OF SCIENCE**

3 credits

An investigation of the relationship between philosophy and science from the standpoint of knowledge and method. The course will deal with philosophical problems common to the natural and social sciences, including the role of laws and theories in scientific explanation and prediction, the problem of induction and confirmation, and the nature and role of measurement and scaling. An historical survey will discuss the development of scientific method and the nature of scientific progress.

Philosophy 407.**ANALYTIC PHILOSOPHY**

3 credits

A study of the basic writings of Moore, Russell, Wittgenstein, Ayer, Strawson, Austin, Ryle, and Wisdom. Topics may include: the method of linguistic analysis and its application to traditional philosophical problems; the problem of meaning and truth; the relation between language, thought, and reality; logical positivism and the faith of the verification principle; meaning and verification of statements in religious language, ethics and metaphysics.

Philosophy 408.**SYMBOLIC LOGIC**

3 credits

A study of the following branches of modern or symbolic logic: truth-functional logic; quantificational logic; and the logic of relations. Principles of Aristotelian logic will be evaluated, and the relationship between modern logic and Aristotelian logic will be analyzed.

Philosophy 409.**RUSSIAN PHILOSOPHY**

3 credits

A critical examination of the dominant schools of Russian thought from the 18th century to the present, including the Slavophiles, Westernizers, Nihilists, Populists, critics of religion and culture, Marxists and Communists. Central themes are social philosophy, the nature of the individual, and the nature of history.

Philosophy 410.**PRINCIPLES AND PROBLEMS OF ETHICS**

3 credits

An exposition of the principles governing the rightness and wrongness of human actions, along with an analysis of human happiness, the role of the natural moral law and the nature of virtue. Instruction in the application of ethical principles in the solution of problems in family, political, business, professional and international societies.

Philosophy 413.**HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY**

3 credits

A survey of philosophy from the early Greek thinkers through the decline of Scholasticism. *Required of all philosophy majors.*

Philosophy 414.**HISTORY OF MODERN AND CONTEMPORARY PHILOSOPHY**

3 credits

A survey of philosophy from the Renaissance period through contemporary thinkers. *Required of all philosophy majors.*

Philosophy 425.**SEMINAR**

3 or 6 credits

A comprehensive investigation of philosophy as an integral and integrating discipline. Various staff members will lecture and lead discussions. Examination is a one hour oral comprehensive. Qualified majors (and others approved by the chairman) may elect an honors extension of the seminar. (Three additional credits). Requirements: maintenance of 3.75 index in philosophy, submission of an acceptable research paper done under department mentor chosen by student, and attainment of a distinguished pass in the oral examination. Successful completion merits graduation with honors in philosophy. *Required of all philosophy majors; open to others approved by chairman.*

N.B. Prerequisite for all 400 courses: Philosophy 305.

PHYSICS

JOSEPH W. SIMMONS, M.S., *Chairman*
Associate Professors: Guttman, Simmons
Assistant Professors: Galatola, Strieb

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
Mathematics 106	4	Mathematics 216	4
Physics 111	4	Physics 112	4
English 101	3	English 102	3
Language 101	3	Language 102	3
	17		17

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Physics 405	3
Mathematics 217	4	Physics 311	3
Physics 213	3	Physics 410	3
Language 202	3	Language 204	3
English 205	3	English 206	3
	16		15

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THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 206	3
Physics 312	3	Physics 304	4
Physics 309	3	Physics 310	3
Electives	6	Physics 405	3
	15	Elective	3
			16

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Physics 413	3	Philosophy Elective	3
Physics 407	4	Physics 414	3
History or		Physics 408	4
Social Science Option	3	History or	
Elective	3	Social Science Option	3
Philosophy 305	3	Elective	3
	16		16

Physics 111-112.

GENERAL PHYSICS I & II

4-8 credits

For freshman physics majors. Topics considered include mechanics, special relativity, electricity, and magnetism. Prerequisites: Mathematics 106 and 216 concurrently. Three hours lecture, two hours laboratory; two terms.

Physics 211-212.**GENERAL PHYSICS****4-8 credits**

Mechanics, heat, light, sound, electricity and magnetism, and modern physics. Prerequisite: Mathematics 106. Three hours lecture, two hours laboratory; two terms.

Physics 213.**GENERAL PHYSICS III****4 credits**

Includes topics relative to wave phenomena and modern physics. Prerequisites: Physics 112 or 212; Mathematics 216 concurrently. Three hours lecture, two hours laboratory.

Physics 304.**STATES, WAVES AND PHOTONS****4 credits**

A modern introduction to optics encompassing matrix representations of optical systems and polarization states of light; the Jones calculus, the Mueller calculus and the Stokes representation; states of light as eigenstates of operators, expectation values, the bracket product and probability amplitudes; an approach to scalar diffraction through Green's theorem and Fourier transforms; the electromagnetic field and its quantization. Prerequisite: Physics 309. Three hours lecture and one laboratory period.

Physics 305.**INTRODUCTION TO ASTROPHYSICS****3 credits**

Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.

Physics 306.**PLANETARY PHYSICS****3 credits**

The solar system and its origins; interiors and atmospheres of terrestrial and giant planets, interplanetary matter and comets. Prerequisite: Mathematics 216.

Physics 309.**ELECTRICITY AND MAGNETISM I****3 credits**

Special relativity, electrostatics, potential theory, solution of Laplace's equation, magnetostatics, Faraday's law, dielectrics, Maxwell's equations, wave equation in free space, Poynting vector. Prerequisite: Physics 311 or equivalent.

Physics 310.**ELECTRICITY AND MAGNETISM II****3 credits**

Electromagnetic waves in wave guides and materials, electromagnetic radiation, static and dynamic electric and magnetic properties of materials. Prerequisite: Physics 309 or equivalent.

Physics 311.**MATHEMATICAL PHYSICS I****3 credits**

Vector analysis, differential equations, introduction to partial differential equations, Fourier series and boundary value problems. Emphasis on the physical origins and applications of mathematical techniques.

Physics 312.**MATHEMATICAL PHYSICS II****3 credits**

Complex variables and complex integration, Fourier and Laplace transforms, special function of mathematical physics and boundary value problems. Physical applications stressed.

Physics 315.**SCIENTIFIC PROGRAMMING**

3 credits

The elements of computer programming with emphasis on the Fortran language and its scientific applications. Open to all science majors and designed to enable the student to utilize computer techniques in his own field of study. Two hours lecture, two hours laboratory.

Physics 405.**THERMAL PHYSICS**

3 credits

Topics treated include the first, second and third law of thermodynamics; kinetic theory of gases; transport phenomena; Maxwell-Boltzmann statistics; Bose-Einstein and Fermi-Dirac statistics. Three hours lecture.

Physics 407.**ATOMIC PHYSICS**

4 credits

Lectures and problems dealing with the special theory of relativity, black body radiation, photoelectric and thermionic emission, wave-particle duality, uncertainty principle, Rutherford scattering, the Bohr-Sommerfeld atom, the Schrodinger equation and its application to the hydrogen atom. Additional topics include the interaction of radiation with matter, X-rays and the diatomic molecule. Prerequisite: Physics 311. Three hours lecture, one laboratory period.

Physics 408.**NUCLEAR PHYSICS**

4 credits

Introductory course in nuclear physics; covers such topics as fundamental particles, properties of nuclei, radioactivity, and nuclear reactions. Prerequisite: Physics 407. Three hours lecture, two hours laboratory.

Physics 410.**ELECTRONICS**

3 credits

An introductory course dealing with vacuum tube and transistor circuits. Prerequisite: Mathematics 217. Two hours lecture, one laboratory period.

Physics 413-414.**MECHANICS**

3-6 credits

Topics include the single particle and systems of particles in one, two and three dimensions; rotation of a rigid body; moving coordinate systems; and the mechanics of continuous media. Lagrange's and Hamilton's equations are developed and tensor methods are introduced in their non-relativistic applications. Prerequisites: Physics 311, 312 or equivalent. Three hours lecture; two terms.

Physics 416.**QUANTUM MECHANICS**

3 credits

An introductory course. Old quantum theory, Schrodinger equation, matrix mechanics, angular momentum, perturbation theory, symmetry properties of the wave function, quantum theory of measurement. Prerequisites: Physics 311, 312.

Physics 419-420.**RESEARCH**

1-2 credits

Individual studies and research, presentation of papers, familiarization with the literature.

Physics 421.**HISTORY OF SCIENCE**

2 credits

An introduction to scientific thought and scientific discoveries from the earliest times to the present. Individual work in the history of physics. Two hours lecture.

POLITICAL SCIENCE

ROBERT J. COURTNEY, Ph.D., Chairman
 Professors: Cleary, Courtney
 Associate Professor: Nathans
 Assistant Professors: Dillon, Hill, McGovern
 Instructor: Foley

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 107	3	Theology A Elective	3
English 101	3	English 102	3
Language 101	3	Language 102	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
Political Science 101	3	Political Science 103	3
	15 or 16		15 or 16

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 206	3	Theology B Elective	3
Political Science 201	3	Political Science 203	3
Language 202	3	Language 204	3
History A Elective*	3	History A Elective*	3
Economics 111	3	Economics 112	3
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 305	3	Theology C Elective	3
Psychology 101	3	Political Science Electives	6
English 205	3	English 206	3
Political Science Elective	3	Elective	3
Elective	3		
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy Elective	3	Political Science 416	3
Political Science 415	3	Fine Arts Elective	3
Political Science Elective	3	Political Science Elective	3
Electives	6	Electives	6
	15		15

* Recommended: History 214-215 for political science majors. History 219-220 for political science-education majors.

Political Science 101.

SCIENCE OR GOVERNMENT

3 credits

A study of the nature of political authority, the state, its organs and their functions. Required of all political science majors.

- Political Science 103.**
POLITICAL GEOGRAPHY 3 credits
A survey of the geographic factors influencing the real and potential economic and political development of nations. *Required of all political science majors.*
- Political Science 201.**
AMERICAN FEDERAL GOVERNMENT 3 credits
An examination of the organization and functions of the federal government of the United States; a study of the separation of powers and relations with the states. *Required of all political science majors.*
- Political Science 203.**
SURVEY OF POLITICAL THOUGHT 3 credits
An analysis of the major political writers from Plato to the present. Emphasis on each author's concept of the state, its function and end, and his solution to the problem of the reconciliation of the common good with individual freedom.
- Political Science 302.**
AMERICAN STATE GOVERNMENT 3 credits
A study of the state as a partner in the federal system; the states' constitutional development; and principles underlying state governmental organization, reorganization, and functions.
- Political Science 303.**
AMERICAN CONSTITUTIONAL LAW 3 credits
An analysis of the development of the Constitution via the interpretations of the Supreme Court. Principal topics are the federal system, judicial review, separation of powers, powers of Congress and the President, the Commerce Clause, and political and civil rights.
- Political Science 401.**
UNITED STATES FOREIGN RELATIONS 3 credits
The historical development of United States diplomacy and foreign policy from the period of the Revolution to 1914.
- Political Science 402.**
UNITED STATES FOREIGN RELATIONS 3 credits
A continuation of Political Science 401, from 1914 to the present.
- Political Science 405.**
MUNICIPAL GOVERNMENT 3 credits
A study of the organization and functions of government at the municipal level and an analysis of trends and types of municipal governments.
- Political Science 406.**
COMPARATIVE GOVERNMENT: EUROPEAN 3 credits
A comparative analysis of the constitutional principles and governmental organizations of England, U.S.S.R., and France.
- Political Science 407.**
INTERNATIONAL RELATIONS 3 credits
An analysis of the basic patterns and major factors underlying international politics. Consideration to current international problems.
- Political Science 408.**
COMPARATIVE GOVERNMENT: SOUTH AMERICAN 3 credits
A comparative analysis of the constitutional principles and governmental organization of Argentina, Brazil, and Chile.

Political Science 409.**AMERICAN POLITICAL PARTIES**

3 credits

A view of the political problems of the United States as revealed in the major and minor political parties that have arisen during the country's history.

Political Science 413.**NON-WESTERN POLITICAL SYSTEMS**

3 credits

A study of the governmental institutions and political processes of India and Pakistan. Particular emphasis will be given to factors contributing to development of democratic and non-democratic systems.

Political Science 414.**NON-WESTERN POLITICAL SYSTEMS**

3 credits

A study of the governmental institutions and political processes of the People's Republic of China and Japan. Particular emphasis to problems of development and modernization.

Political Science 415.**SEMINAR I**

3 credits

A study of methods of research and scholarly writing. Directed research and reports on individual assignments. *Required of all political science majors.*

Political Science 416.**SEMINAR II**

3 credits

Supervised research and writing on major topic. Weekly presentation and group discussion of individual papers. Submission of written thesis. *Required of all political science majors.*

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PSYCHOLOGY

JOHN J. ROONEY, Ph.D., *Chairman*

Professors: Dondero, Grimes, McCarthy, Rooney

Associate Professors: Brooks, Kovatch, Pfeiffer, Schreiner, Smith

Assistant Professors: Ashcraft, Bernier, Filicetti, Gilligan

Instructor: Bagne

Lecturers: Garfield, Mitchell, Platt

FIRST YEAR*Fall*

Theology A Elective	3
English 101	3
Language 101	3
Psychology 101	3
Mathematics 103	4
—	
	16

Spring

Philosophy 107	3
English 102	3
Language 102	3
Psychology 201	3
Mathematics 106	4
—	
	16

SECOND YEAR*Fall*

Theology B Elective	3
Language 202	3
English 205	3
Psychology 212	3
Science Option	3 or 4
—	
	15 or 16

Spring

Theology C Elective	3
Language 204	3
English 206	3
Psychology 213	3
Science Option	3 or 4
—	
	15 or 16

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 206	3	Philosophy 305	3
History or Social Science Option ..	3	History or Social Science Option ..	3
Psychology 319	4	Psychology 320	4
Fine Arts Elective	3	Psychology 322	3
Elective	3	Elective	3
	16		16

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Psychology Elective	3	Philosophy Elective	3
Electives	12	Psychology Electives	6
	15	Electives	6
			15

N.B. General Psychology 101 is a prerequisite for all other psychology courses (with the exception of Psychology 212). With the permission of the instructor in a particular course this prerequisite may be waived.

Psychology 101.
GENERAL PSYCHOLOGY I 3 credits

Introduction to the scientific study of human behavior. Emphasis on methods of psychological research and principles and theories developing from this research.

Psychology 201.
GENERAL PSYCHOLOGY II 3 credits

A continuation of Psychology 101. For students who plan to major in psychology and for other students who desire a more intensive coverage of the principles and theories of psychology than is possible in the first course.

Psychology 212.
STATISTICS I 3 credits

An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisite: Mathematics 103-106 or equivalent with permission.

Psychology 213.
STATISTICS II 3 credits

An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: Statistics I or equivalent.

Psychology 303.
EDUCATIONAL PSYCHOLOGY 3 credits

Identical with Education 302. See page 50.

Psychology 311.
DEVELOPMENTAL PSYCHOLOGY 3 credits

A general study of the development of behavior and the human personality from conception through adulthood; special emphasis on childhood and adolescence.

Psychology 315.**ABNORMAL PSYCHOLOGY**

3 credits

An introductory course surveying the principal forms of the major and minor mental disorders, with emphasis on the causes, symptoms, course and treatment. An analysis of the over-all problem of mental illness and a study of certain borderline personality and behavioral patterns and other forms of psychological deviation. Prerequisite: Psychology 324 or permission.

Psychology 316.**TESTS AND MEASUREMENTS**

3 credits

The selection, administration and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest and personality. Prerequisite: Psychology 212 or equivalent.

Psychology 319.**EXPERIMENTAL PSYCHOLOGY I**

4 credits

A laboratory course designed to introduce the student to the classical psychological experiments and to train him in the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes and emotions. Prerequisites: Psychology 201 and 213 or permission. Three hours lecture, three hours laboratory.

Psychology 320.**EXPERIMENTAL PSYCHOLOGY II**

4 credits

Lectures and discussions on modern experimental psychology. For laboratory work, the student plans, designs, and performs an original research experiment. Prerequisite: Psychology 319. Three hours lecture, three hours laboratory.

Psychology 322.**READINGS IN PSYCHOLOGY**

3 credits

Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar-fashion at one two hour meeting weekly. Prerequisite: Psychology 201.

Psychology 324.**PERSONALITY DYNAMICS AND ADJUSTMENT**

3 credits

An analysis of the human system, the dynamics of individual behavior, and a consideration of resources necessary for effective living as they are related to a better understanding of personal adjustments in healthy persons developing toward maturity.

Psychology 417.**INDUSTRIAL AND BUSINESS PSYCHOLOGY**

3 credits

A study of those psychological principles, methods and techniques which are especially relevant to an understanding of human relations and efficiency in business and industry.

Psychology 422.**SOCIAL PSYCHOLOGY**

3 credits

A study of the facts and theories dealing with the phenomena of social behavior. Focuses on individual behavior as it affects and is affected by the behavior of others.

Psychology 423.
 SEMINAR I 3 credits
 Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: Psychology 201 or permission of the chairman.

Psychology 424.
 SEMINAR II 3 credits
 A continuation of Psychology 423 with primary focus on topics judged by students and faculty to be particularly relevant for present day psychology majors. Prerequisite: Psychology 423 or permission of the chairman.

Psychology 425-426.
 PSYCHOLOGICAL RESEARCH 3-6 credits
 Designed to integrate and apply the student's knowledge of scientific psychology, scientific methods, laboratory and statistical techniques, and the field of research literature in the solution of a specific problem. Requires completion of a research project under the direction of a staff member. Prerequisite: Psychology 320. One or two terms.

Psychology 453.
 THEORIES OF LEARNING 3 credits
 An analysis of the principal theories of learning in the light of recent experiments in animal and human learning. Prerequisite: Psychology 201.

Psychology 455.
 COUNSELING THEORIES AND PRINCIPLES 3 credits
 Theories and principles of the counseling process. The dynamics of human change. The objectives, work, and continuing problems of counseling. Prerequisite: Psychology 101 or equivalent.

SOCIOLOGY

RICHARD C. LEONARD, Ph.D., *Acting Chairman*
Associate Professors: Coffee, J. F. Connors, Leonard
Assistant Professors: J. T. Connors, Hornum, McEntee
Instructors: Blankertz, Bird

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
English 101	3	English 102	3
Language 101	3	Language 102	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
Sociology 101	3	Sociology A Elective	3
	<hr/>		<hr/>
	15 or 16		15 or 16

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
Language 202	3	Language 204	3
Sociology A Elective	3	Sociology A Elective	3
History A Elective	3	History A Elective	3
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 305	3	Theology C Elective	3
Sociology 313	3	Sociology 314	3
Sociology 426	3	Psychology 101	3
Economics or Political Science		Economics or Political Science	
Option	3	Option	3
Elective	3	Elective	3
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy Elective	3	Sociology 408	4
Sociology 407	4	Sociology B Electives	6
Fine Arts Elective	3	Electives	6
Sociology B Elective	3		16
Elective	3		
	16		

SECTION A: SURVEY COURSES

Sociology 101.

PRINCIPLES OF SOCIOLOGY

3 credits

The role of society and culture in determining human behavior.

Sociology 103.

SOCIAL DISORGANIZATION

3 credits

A study of current maladjustments in urban and rural human relationships and of the agencies designed to assist groups and individuals concerned.

Sociology 304.

MARRIAGE AND THE FAMILY

3 credits

Mate selection, marriage, and child-rearing in a changing world.

Sociology 306.

MINORITY GROUPS

3 credits

Examination of the racial and ethnic groups that compose American society. Emphasis on the processes involved in social change in intergroup relations.

Sociology 416.

CRIMINOLOGY

3 credits

A consideration of the causes of crime, the treatment of criminals, and the machinery of justice.

Sociology 418.**CULTURAL ANTHROPOLOGY**

3 credits

A cross-cultural study of the influence of culture in explaining human behavior in primitive and modern societies.

Sociology 420.**INDUSTRIAL SOCIOLOGY**

3 credits

An examination of human relationships and social processes in occupational groups.

SECTION B: SPECIALIZED COURSES**Sociology 308.****THE CITY AND SOCIAL CHANGE**

3 credits

A study of the rate and significance of urbanization in the United States and the world, with particular attention to the housing, planning, and redevelopment movements.

Sociology 309.**POPULATION**

3 credits

Trends and differentials in fertility, mortality, migration and urbanization and national increase as these relate to levels of living in the world.

Sociology 313-314.**SOCIAL STATISTICS**

3-6 credits

A general introduction to the mathematical techniques of statistics, with special emphasis on interpretation and application to sociology.

Sociology 320.**INTRODUCTION TO URBAN STUDIES**

3 credits

An introduction to the varied disciplinary approaches used by social scientists in their investigation of the urban scene. Study and discussions of the literature on urban affairs. Independent research projects on surrounding neighborhood area. Co-taught by sociology and economics departments. Prerequisites: 6 hours of social science.

Sociology 321.**SEMINAR IN URBAN STUDIES**

3 credits

Intensive analysis of the city as a system of interrelated variables and institutional sub-systems. Stresses current policies and practices in the social and economic options available to various urban interest groups. Independent research projects on the Philadelphia region. Co-taught by economics and sociology departments.

Sociology 480.**INDEPENDENT STUDIES**

3 credits

Intensive individual study of a selected sociological area under the supervision of a faculty member. Emphasis is given to the reading of basic sociological literature in the selected area and the completion of a term project.

Sociology 404.**THE SOCIOLOGY OF RELIGION**

3 credits

A study of religion as a basic social institution and of its relationships with the political, economic, and stratification systems of society and with social change.

Sociology 407-408.**INTRODUCTION TO SOCIAL RESEARCH**

4-8 credits

Individuals or groups are guided in planning and completing a project utilizing several social science research techniques.

Sociology 412-414.**INTRODUCTION TO SOCIAL WORK**

4-8 credits

An elementary interpretation of social case work in various settings, social group work, community organization, and research in the profession of social work. Two hours in class and a minimum of four hours in a welfare agency each week. If agency placement is not desired, credit is given for class sessions only. Two terms.

Sociology 422.**SOCIAL PSYCHOLOGY**

3 credits

Identical with Psychology 422. See page 92.

Sociology 426.**SOCIOLOGICAL THEORY**

3 credits

A survey of the results of theory-making from the genetic point of view. Emphasis will be given to theorists who have had the most influence in American sociology.

Sociology 427-428.**SEMINAR IN CRIMINAL JUSTICE ADMINISTRATION**

3-6 credits

The theory and practice of law enforcement, judicial, and correctional agencies. Prevention and treatment programs are critically examined through class discussions, individual projects, visits to agencies and institutions, and participation of experts in the correctional field.

Sociology 429-430.**FIELD SEMINAR IN CRIMINAL JUSTICE**

4-8 credits

An interpretation of the correctional process through field placement in law enforcement, judicial, and correctional agencies and class sessions in the theory and practice of corrections.

PREPARATION FOR SOCIAL WORK

The program below is recommended to students who have completed the freshman sociology program and who plan a career in social work.

SECOND YEAR*Fall*

Theology B Elective	3
English 205	3
Language 202	3
Psychology 101	3
History A Elective	3
<hr/>	<hr/>

15

Spring

Philosophy 206	3
English 206	3
Language 204	3
Sociology 416	3
History A Elective	3
<hr/>	<hr/>

15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 305	3	Theology C Elective	3
Psychology 311	3	Psychology 324	3
Sociology 313	3	Sociology 426	3
Sociology 304	3	Sociology 314	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy Elective	3	Sociology 422	3
Fine Arts Elective	3	Sociology 306	3
Sociology 412	4	Sociology 414	4
Sociology 308	3	Psychology 455	3
Elective	3	Elective	3
	<hr/>		<hr/>
	16		16

PREPARATION FOR WORK IN CRIMINAL JUSTICE

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The program below is recommended to students who have completed the freshman sociology program and who plan a career in the criminal justice field.

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
Language 202	3	Language 204	3
Psychology 101	3	Psychology 324	3
Sociology 416	3	Elective	3
	<hr/>		<hr/>
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 305	3	Theology C Elective	3
Sociology 313	3	Sociology 426	3
Sociology 427	3	Sociology 314	3
History A Elective	3	History A Elective	3
Elective	3	Sociology 428	3
	<hr/>		<hr/>
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Philosophy 410	3	Psychology 315	3
Fine Arts Elective	3	Sociology 430	4
Sociology 429	4	Psychology 455	3
Sociology or		Electives	6
Psychology Option	3		—
Elective	3		16
	—		
	16		

SPEECH AND DRAMA

DANIEL J. RODDEN, M.F.A.

A new program in speech and drama is being introduced in 1970. Courses in this new program are listed under the English department course descriptions on page 52.

THEOLOGY

WILLIAM J. MARTIN, F.S.C., S.T.D., *Chairman*

Professor: Gimborn

Associate Professors: Kaiser, Martin, Schepers

Assistant Professors: Davis, Efroymsen, Halligan, Keenan,

Travers, Van Everbroeck, White

Instructors: Biechler, Tuppeny

Lecturer: Frank

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FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology 150	3	Theology 117	3
English 101	3	English 102	3
Language 101	3	Language 102	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
Psychology 101	3	Philosophy 107	3
	—		—
	15 or 16		15 or 16

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Theology 350	3
English 205	3	English 206	3
Language 202	3	Language 204	3
Social Science Elective	3	Social Science Elective	3
Fine Arts Elective	3	Philosophy 206	3
	—		—
	15		15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology 431	3	Theology 432	3
Theology Elective	3	Theology Elective	3
History A Elective	3	History A Elective	3
Philosophy 305	3	Philosophy Elective*	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Theology 421	3	Theology 485	3
Theology Elective	3	Theology 424	3
History 371 or 349	3	History 372 or 350	3
Psychology Elective**	3	Philosophy Elective	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

* Philosophy 400, 402, 405, 410, 413, 414.

** Psychology 311, 315, 324, 422.

All students are required to take nine hours in theology. Freshmen have an option from Area A, sophomores from Area B, and juniors from Area C. Seniors who have completed their required nine hours may take additional courses in the discipline on a pass/fail basis. Juniors and seniors enrolled in the honors program and others having the permission of the chairman will be admitted to the 400 courses given to theology majors.

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AREA A: INTRODUCTORY STUDIES

Theology 117.

SACRED SCRIPTURE

3 credits

An introduction to contemporary biblical studies through an analysis of selected books of the Old and New Testaments with focus on the unifying themes and the theological thought they contain.

Theology 150.

INTRODUCTION TO RELIGION

3 credits

Religion as a human enterprise. Its personal and social dimension. Commitment as fundamental to religion. Theology as understanding the commitment. Religion and Revelation. The contemporary religious scene.

AREA B: DOCTRINAL STUDIES

Theology 250.

THEOLOGY OF THE CHURCH

3 credits

A study of the nature, function, and goals of the Church, especially in the light of Vatican II. The roles of the hierarchy and of the laity and their relationship within the Church as well as with the total human family will be examined. Specifically, questions concerning authority, Church structures, lay participation, and the impact of the Church on the lives of its members will be treated.

Theology 260.**STUDIES IN JESUS OF NAZARETH, THE CHRISTIAN MESSIAH****3 credits**

Recent discussions of the historical verifiability of the acts of Jesus as described in the Gospels; the community's belief in Jesus as producing the Christian dogmas on Christ; the Christological controversies of the first five centuries; contemporary views of Jesus' actions as redemptive for mankind.

Theology 270.**THEOLOGY OF SACRAMENTS AND WORSHIP****3 credits**

A study of human personal relationship; religion as personal relationship of man with God; Christ as sacrament of personal encounter with God; the Church as sacrament of personal encounter with the Risen Christ; the sacraments as personal acts of the Risen Christ in His Church; contemporary issues and problems regarding the sacraments of Baptism, the Eucharist, and Matrimony.

Non-Catholic students have the following additional options in the sophomore year: English 433, Philosophy 400, History 371, or History 372.

AREA C: MORAL THEOLOGY, ECUMENICAL STUDIES, SPECIAL STUDIES**Theology 350.****CONTEMPORARY MORAL THEOLOGY****3 credits**

The nature of faith as an essential facet of the mature personality; an examination and discussion in the light of modern discoveries of some selected problems contemporary man faces, particularly regarding free will, sex, love, and the historicity of man.

Theology 360.**CHRISTIAN MARRIAGE IN THE MODERN WORLD****3 credits**

Staffed by a theologian, a psychologist, and a sociologist. Theologically, the course will consider the sacramentality of marriage—a sign of Christian Faith which nourishes the Faith of the believers and provides an apostolic witness to the world. The psychological aspect will be concerned with marriage as a means of human fulfillment. The sociological perspective will present an understanding of the modern American family—its historical development, family values and practices, and an assessment of contemporary ideals and behavior regarding sex and family life.

Theology 370.**INTRODUCTION TO WORLD RELIGIONS****3 credits**

A survey of the living religions of the world, particularly those outside the Judeo-Christian tradition. The sacred literature, the historical origin and development, and especially the authentic religious experience of the Hindu, Buddhist, Confucian, Taoist, and Islamic traditions discussed.

Theology 375.**THE DEVELOPMENT OF JEWISH RELIGIOUS THOUGHT****3 credits**

An extensive survey of the Jewish religion, including discussion and analysis of Jewish theology, religious practices, ritual, and customs, treated in the light of other great religions of the world.

Theology 380.**SURVEY OF PROTESTANT THEOLOGY****3 credits**

An introduction to Protestant thought: the central ideas of the Reformation; their development in the context of European and American history to produce world Protestantism; a study of theological trends today, as represented in the major Protestant confessions and the thought of the most influential thinkers: Tillich, Barth, Bultmann, *et al.*

History 371-372.**DIVIDED CHRISTENDOM**

3-6 credits

See p. 77 of the history section for a description of these courses. Either course may be taken as a core requirement in Area C.

Non-Catholic students have the following additional options in junior year: English 433, Philosophy 400, or Philosophy 410.

AREA D: COURSES FOR THEOLOGY MAJORS**Theology 431-432.****THEMES IN CHRISTIAN DOCTRINE**

3-6 credits

Survey of the purpose, content, and development of early Christian credal statements, followed by a more detailed study of various topics in the Creeds, which are patient of theological investigation: the one God who is Father, Son, and Holy Spirit; Creation and the Fall; reconciliation and redemption through Jesus Christ; the life of the world to come. (Not given 1970-71.)

Theology 460.**AMERICAN RELIGIOUS THOUGHT**

3 credits

Historical and theological study of the Roman Catholic Church and the Protestant churches in the U. S. from the American Revolution to the present. Historical origins of these churches and development of distinctive qualities as American denominations. The effects on the churches of: the Revolution, Great Awakening, Abolitionist Movement, Civil War, "Gospel of Wealth," the "Social Gospel," urbanization and suburbanization, the Great Depression, World War II, and the Atomic Age. Major religious thinkers seen in historical and theological perspective.

Theology 471.**ORIENTAL RELIGIOUS CLASSICS**

3 credits

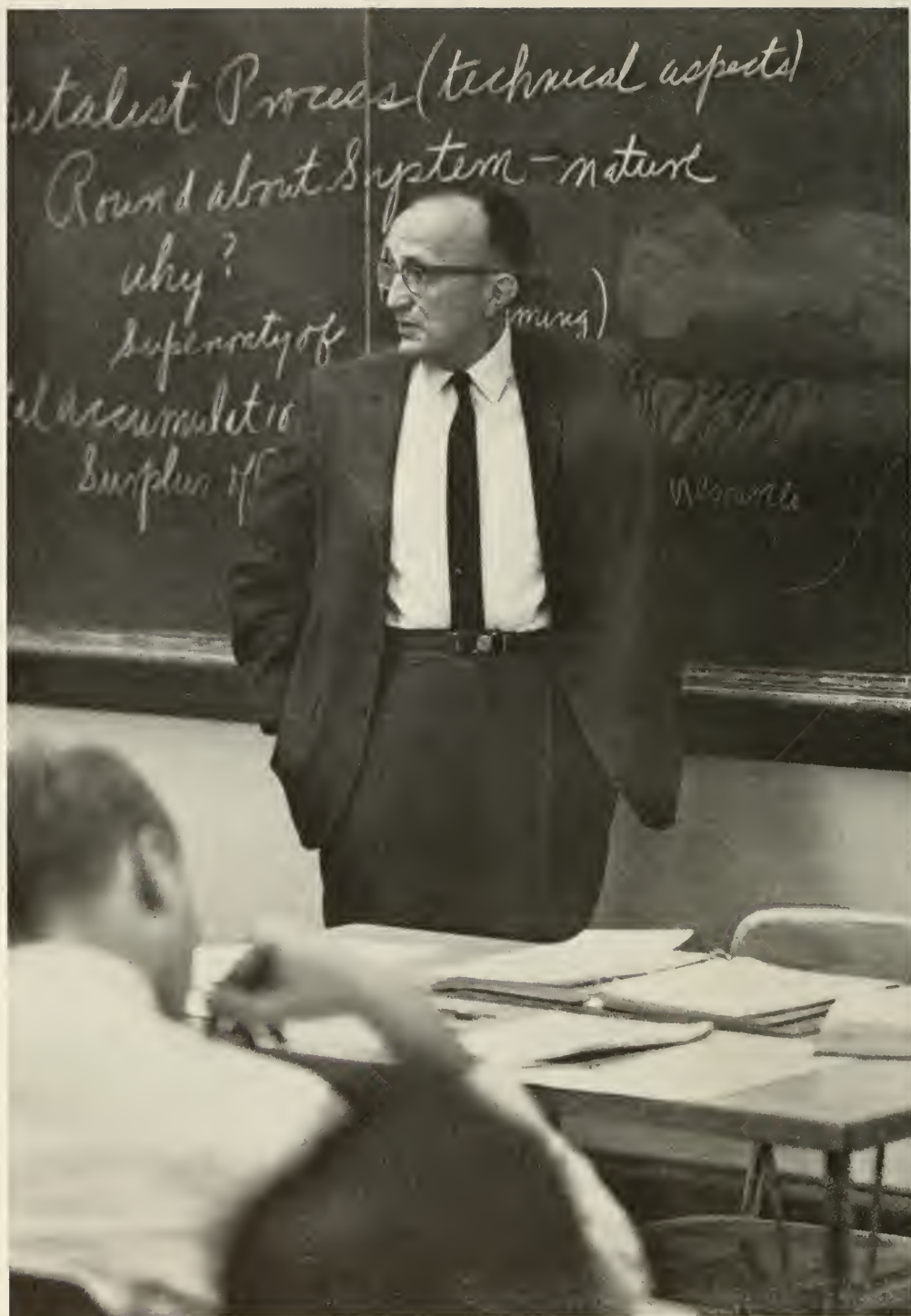
Analysis and comparison through group discussion of selected Great Books of the religious traditions of India and China. Works read include *Upanishads* and *Bhagavad Gita*; works of Confucius, Lao-Tzu, and Chuang-Tzu; the *Lotus Sutra*, or *Tibetan Book of the Dead*, *Book of the Great Liberation*, or *Dhammapada*. Prerequisite: Theology 370 or Philosophy 402 or an equivalent course.

Theology 485.**SEMINAR**

3 credits

An introduction to scholarly research and theological method through the selection, writing, and small group presentation of formal papers in a specific area determined by the instructor. (Not given 1970-71.)





School of Business Administration

The School of Business Administration was established as a separate division of the College in 1955 to offer an increased variety of programs to students preparing for a business career.

The School offers programs of study leading to the Bachelor of Science degree in accounting, general business, finance, industrial management, industrial relations, and marketing.

Concentration in one of these areas will prepare you for entry into that particular area of business endeavor or for further graduate study in the field of business. Moreover, all of these curricula provide a sound core of courses in the humanities, science, and the social sciences to further the intellectual development of the whole man.

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OBJECTIVES

Over and above the general objectives of the College, the School of Business Administration, while providing a sound general education through a substantial program in the liberal disciplines, strives to give a basic understanding of business as a foundation for specialization in a particular area. This broad background is provided through a study of the organization and structure of business as an enterprise; a study of economic forces and the problems created by them; a study of the legal foundations of business and of the fundamental skills used in business organizations.

PROGRAMS OF STUDY

ACCOUNTING

The accounting curriculum is designed to ground the student in all of the accounting processes that he will need to know in entering business, in preparing for the licensing examinations for the professional degree of Certified Public Accountant, or in entering a graduate school of accounting.

FINANCE

This curriculum studies the structural organization and operation of our economic and financial systems and their interrelationships with the specific techniques and practices of financial institutions of all types in the United States.

GENERAL BUSINESS

This curriculum is designed to prepare the student to enter the business world well-equipped with a general knowledge of the principles that govern business operations, or to enter a graduate school of business.

INDUSTRY

This curriculum stresses the various factors that enter into the organization and operation of a business establishment; these factors are integrated with specialized courses in such subjects as production control, industrial relations, etc.

INDUSTRIAL RELATIONS

This curriculum is substantially similar to that in management. Emphasis, however, is placed upon personnel relations and labor organizations.

MARKETING

This curriculum studies those activities—sales, advertising, sales management, wholesaling, retailing, merchandising, sales promotion, marketing research—which are involved in the flow of goods and services from the point of production to the consumer.

EXPLANATION OF OPTIONS

A full four year listing of the courses prescribed for each of the above programs will be found under the departmental listing in the pages following. Departments are listed alphabetically. Since the general business program does not fall under any single department, however, that curriculum is listed first.

In the programs for majors listed on the pages following, you will note that sophomores may elect either mathematics or science. The science course chosen may be either Biology 117-118 (6 credits), Earth Science 101-102 or 103-104 (6 credits), or Chemistry 101-102 (8 credits).

GENERAL BUSINESS

MELVIN F. WOODS, M.A., *Chairman*

FIRST YEAR

Fall

Theology A Elective	3
Accounting 101	3
Economics 111	3
English 101	3
History A Elective	3
—	—

15

Spring

Philosophy 107	3
Accounting 102	3
Economics 112	3
English 102	3
History A Elective	3
—	—

15

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
Business Law 201	2	Business Law 202	2
English 205	3	English 206	3
Finance 201	3	Finance 202	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
	—		—
	14 or 15		14 or 15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Accounting 306	4	Psychology 101	3
Economics 313	3	Fine Arts Elective	3
Marketing 201	3	Marketing 202	3
Elective	3	Elective	3
	—		—
	16		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Industry 202	3	Philosophy Elective	3
Insurance 411	3	Industry 203	3
Psychology 324	3	Insurance 412	3
Electives	6	Finance 401	4
	—	Elective	3
	15		—
			16

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ACCOUNTING

FRANCIS J. GUERIN, C.P.A., *Chairman*

Associate Professors: De Angelis, Guerin, Kaiser, Markmann, Sweeney, Whitman

Assistant Professors: Hanratty, Reardon

FIRST YEAR

<i>Fall</i>		<i>Spring</i>	
Theology A Elective	3	Philosophy 107	3
English 101	3	English 102	3
History A Elective	3	History A Elective	3
Accounting 101	3	Accounting 102	3
Economics 111	3	Economics 112	3
	—		—
	15		15

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
Accounting 201	3	Accounting 202	3
Business Law 201	2	Business Law 202	2
	—		—
	14 or 15		14 or 15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Accounting 303	3	Accounting 304	3
Finance 201	3	Finance 202	3
Psychology 101	3	Accounting 305	3
Elective	3	Elective	3
	—		—
	15		15

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Economics 313	3	Philosophy Elective	3
Accounting 405	3	Fine Arts Elective	3
Accounting 407	4	Accounting 406	3
Electives	6	Accounting 440	3
	—	Elective	3
	16		—
			15

Accounting 101-102.

PRINCIPLES OF ACCOUNTING

3-6 credits

A thorough training in the fundamental principles of recording business transactions, including a study of the presentation and interpretation of the financial data of a single proprietorship, partnership and corporation.

Accounting 201-202.

ACCOUNTING THEORY

3-6 credits

Application of current accounting principles and procedures to such problems as balance sheet valuation, profit determination, equity presentation, flow of working capital, depreciation of tangibles and intangibles, application of funds and comparative statement presentation. Prerequisite: Accounting 101-102.

Accounting 302.

COST ACCOUNTING

4 credits

Similar to Accounting 303-305, but intended for students not majoring in accounting. Prerequisite: Accounting 101-102.

Accounting 303-305.**COST ACCOUNTING**

3-6 credits

Discussion of the necessity, importance and place of cost accounting in modern enterprise; control of material; control of labor; distribution of factory overhead expense; consideration of forms used in job and process cost systems. Investigation of present day trends in cost accounting based on pre-determined standards; problems which arise in connection with the preparation and application of budgets and managerial reports. Prerequisite: Accounting 101-102.

Accounting 304.**AUDITING**

3 credits

A practical presentation of modern audit practices, emphasizing the principles and objectives of an audit. Analysis is made of the audit basis, the best standards, objective reporting, the adoption of improved accounting standards, business controls, professional ethics and legal liability. Prerequisite: Accounting 201-202.

Accounting 306.**FINANCIAL STATEMENT ANALYSIS**

3 credits

Comparative analyses by percentages, ratios, trends, graphic reports and projections applicable to the balance sheet and income statement. A study of the structure and meaning of accounts and peripheral statements such as application of funds, break-even analysis. Prerequisite: Accounting 101-102.

Accounting 308.**ACCOUNTING INFORMATION SYSTEMS**

3 credits

A thorough study of contemporary accounting practice in data communication and data processing. Systems analysis, flow charting, software and hardware descriptions and practical applications to auditing and general accounting problems. Prerequisite: Accounting 101-102.

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Accounting 405-406.**ADVANCED ACCOUNTING THEORY AND PROBLEMS**

3-6 credits

A detailed study of home office and branch accounting; correction of financial statements; partnership adjustments and liquidations; mergers and the preparation of consolidated financial statements; insolvency in connection with realization and liquidation. *For seniors only.*

Accounting 407.**INCOME TAXES**

4 credits

Training in the application of the basic principles to the solution of tax problems: individual income tax returns, inclusions, exclusions and capital gain or loss applicable thereto; pay-as-you-go tax collection system; partnership, corporation and fiduciary income tax returns; social security, estate and gift taxes. Prerequisite: Accounting 101-102.

Accounting 440.**ACCOUNTING SEMINAR**

3 credits

Research in selected topics of accounting theory will enable the student to think critically and in an orderly fashion. Questions dealing with debatable areas of accounting will be discussed and the actual treatment in published reports will be reviewed. *For seniors only.*

BUSINESS LAW

Associate Professor: Domineske
Lecturers: Gembala, Zaleski

Business Law 201-202.

LAW OF CONTRACTS

2-4 credits

Introduces the student to the more common rules and principles governing business transactions; the rights and duties of individuals resulting from contractual and quasi-contractual obligations; and the legal relationship of principal and agent.

Business Law 302.

LAW OF PARTNERSHIPS AND CORPORATIONS

3 credits

Common and statute laws relative to the creation, operation and termination of partnerships and corporations. Emphasis on the Uniform Partnership Act and the Business Corporate Law of Pennsylvania. Business trusts and joint stock companies also discussed. Prerequisite: Business Law 201-202.

Business Law 303.

LAW OF SALES AND SALES FINANCING

3 credits

Common and statute laws relative to the sale, purchase, transfer and bailment of personal property. Emphasis on the Uniform Commercial Code relative to sales, sales financing and secured transactions. Includes the legal relationship of bailor and bailee, shippers and common carriers. Prerequisite: Business Law 201-202.

Business Law 305.

LAW OF REAL ESTATE

3 credits

Common and statute law and court process which the real estate salesman and broker encounter daily, including the legal principles applicable to the listing contract, the agreement of sale, mortgages, deeds, leases, adverse possession, easements, licenses, proving and recording title. Prerequisite: Business Law 201-202.

Business Law 404.

LAW OF NEGOTIABLE INSTRUMENTS

3 credits

Application of the common law and the Uniform Commercial Code to checks, promissory notes and bills of exchange. The use of commercial paper in security transactions and in the creation of credit. The laws of principal and surety, and insurer and insured as related to the use of commercial paper. Prerequisite: Business Law 201-202.

FINANCE

JAMES J. HENRY, LL.D., *Chairman*
Professor: Henry
Associate Professor: Woods
Instructor: O'Meara

FIRST YEAR

Fall

Theology A Elective	3
English 101	3
History A Elective	3
Accounting 101	3
Economics 111	3
—	15

Spring

Philosophy 107	3
English 102	3
History A Elective	3
Accounting 102	3
Economics 112	3
—	15



SECOND YEAR

Fall

Theology B Elective	3
English 205	3
Finance 201	3
Business Law 201	2
Mathematics or Science Option	3 or 4
	<hr/>

14 or 15

Spring

Philosophy 206	3
English 206	3
Finance 202	3
Business Law 202	2
Mathematics or Science Option	3 or 4
	<hr/>

14 or 15

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THIRD YEAR

Fall

Theology C Elective	3
Finance 301	2
Finance 401	4
Economics 313	3
Elective	3
	<hr/>

15

Spring

Philosophy 305	3
Finance 302	2
Psychology 101	3
Fine Arts Elective	3
Elective	3
	<hr/>

14

FOURTH YEAR

Fall

Marketing 201	3
Finance 403	4
Insurance 411	3
Electives	6
	<hr/>

16

Spring

Philosophy Elective	3
Marketing 202	3
Finance 402	4
Insurance 412	3
Elective	3
	<hr/>

16

Finance 201-202.**MONEY AND CREDIT**

3-6 credits

The principles of money, monetary standards and the means used by commercial banks to create credit. Particular emphasis given to the effect on our economy of Federal Reserve policy and U.S. Treasury fiscal policy.

Finance 301-302.**STOCK MARKETS**

2-4 credits

A study of the functions of the stock exchange and the procedure of trading and executing orders on the floor of the exchange with their effect on prices. Current market movements are studied and analyzed with the use of current materials and special projects. Consideration is given to federal regulations and to the delivery, transfer and clearing of stocks.

Finance 401.**CORPORATION FINANCE**

4 credits

The principles and practices necessary to establish a business enterprise: promotion, financing, types of securities, expansion, consolidation, insolvency and reorganization.

Finance 402.**INVESTMENTS**

4 credits

Analysis of the types of investments and kinds of risk represented. Some consideration of standards involved in the selection of an investment portfolio.

Finance 403.**FINANCE SEMINAR**

4 credits

Review of organization and institutions of financial system based on research and analysis of the literature and current developments in the field. *For seniors only.*

INDUSTRY

BERNARD B. GOLDNER, Ph.D., *Chairman*

Professors: Goldner, Halpin

Assistant Professors: MacLeod, McNelis

FIRST YEAR*Fall*

Theology A Elective	3
Accounting 101	3
English 101	3
History A Elective	3
Economics 111	3
<hr/>	

15

Spring

Philosophy 107	3
Accounting 102	3
English 102	3
History A Elective	3
Economics 112	3
<hr/>	

15

SECOND YEAR*Fall*

Theology B Elective	3
English 205	3
Business Law 201	2
Industry 202	3
Mathematics or Science Option	3 or 4
<hr/>	

14 or 15

Spring

Philosophy 206	3
English 206	3
Business Law 202	2
Industry 203	3
Mathematics or Science Option	3 or 4
<hr/>	

14 or 15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Accounting 302 or 308	4	Industry 310	3
Industry 317	4	Industry 318	4
Psychology 101	3	Fine Arts Elective	3
Elective	3	Elective	3
	17		16

FOURTH YEAR

<i>Fall</i>		<i>Spring</i>	
Finance 201	3	Philosophy Elective	3
Industry 440	3	Finance 202	3
Industry 420	4	Industry 407	3
Electives	6	Industry 408	3
	16	Elective	3
			15

Industry 202.
PRINCIPLES OF INDUSTRIAL MANAGEMENT 3 credits
 Organization, planning, decision-making, controls, quantitative techniques, behavioral studies. Basic course for all business students.

Industry 203.
MANAGEMENT PRINCIPLES II 3 credits
 In-depth studies and analyses of modern management principles and applications in the areas of quantitative analysis and behavioral studies. Prerequisite: Industry 202.

Industry 310.
MATERIALS MANAGEMENT 3 credits
 The principles of modern, scientific materials control, including organization, purchasing, quality control, inventory control, procurement of transportation services, and sources of supply.

Industry 317.
LABOR PROBLEMS IN AMERICA 4 credits
 Identical with Economics 317. See page 47.

Industry 318.
INDUSTRIAL RELATIONS AND PERSONNEL MANAGEMENT 4 credits
 Designed to train students to analyze existing programs, to adapt procedures and to develop original methods which will insure efficient personnel administration. Topics include job analysis, selection, promotion and transfer, attitudes and morale, health and safety. Outside readings and term paper required.

Industry 405.
LABOR LEGISLATION 4 credits
 Study and analysis of the important federal statutes affecting labor-management relations, including the Railway Labor Act of 1926, the Norris-LaGuardia Act, the Taft-Hartley Act, and the Landrum-Griffin Act. Outside readings and reports required.

Industry 406.

COLLECTIVE BARGAINING

4 credits

Study of external and internal factors influencing the establishment of trade agreements and the application of these provisions to day-to-day employer-employee problems through an analysis of authentic cases drawn from industry. Two hour seminar meets twice weekly.

Industry 407.

PRODUCTION CONTROL

3 credits

Principles of production planning and control, including organizational and original planning, intermittent and continuous manufacturing, visual controls, PERT, computers and automation. *Open only to industry seniors.* Term paper required. Prerequisite: Industry 202.

Industry 408.

FIELD WORK IN INDUSTRY

3 credits

Class discussion and written reports based on observation of modern industrial methods as applied by companies in the Philadelphia area. A comprehensive report on each plant visited is required every week. *Open only to industrial management seniors.* Spring term.

Industry 417.

INTERNATIONAL LABOR-MANAGEMENT RELATIONS

4 credits

A study of the structure and operation of labor and management institutions in certain selected countries abroad. Special emphasis on individual labor-management relationships, as well as on the social, economic, and political environment conditioning these relationships.

Industry 420.

BUSINESS POLICY

4 credits

Opportunities are provided to coordinate and apply theoretical knowledge gained in previous courses in the area of business administration. Through simulated management of an organization, decisions will be made, problems solved and results analyzed. Authorization of chairman required.

Industry 430.

BUSINESS COMMUNICATION

3 credits

Classroom situations are contrived to encourage and stimulate the student to communicate his thoughts as accurately and promptly as possible. Course divided equally between theory and practice: theory involves investigation of some great critical writing; practice consists of case situations which will supply an environment for the student to communicate his thoughts.

Industry 440.

CREATIVE THINKING AND EXECUTIVE DECISION-MAKING

3 credits

Principles and techniques of how to think creatively. Each student engages in creative exercises. Complex cases for realistic decision-making are analyzed and evaluated in writing. Comprehensive reports required. Authorization of chairman required.

INDUSTRIAL RELATIONS

CHARLES A. J. HALPIN, JR., LL.B., M.A., *Chairman*

The industrial relations curriculum for the first two years is identical with the industry curriculum.

THIRD YEAR

Fall

Theology C Elective	3
Economics 313	3
Industry 317	4
Psychology 101	3
Elective	3

16

Spring

Philosophy 305	3
Economics 314	3
Industry 318	4
Fine Arts Elective	3
Elective	3

16

FOURTH YEAR

Fall

Philosophy Elective	3
Industry 405	4
Marketing 201	3
Industry 407	3
Elective	3

16

Spring

Industry 417	4
Industry 406	4
Marketing 202	3
Industry 440	3
Elective	3

17

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INSURANCE

Lecturer: Christie

Insurance 411.

PRINCIPLES OF RISK

3 credits

A survey of the underlying principles, practices, and legal aspects of life, fire, marine, fidelity and corporate surety, employer's liability, title and credit insurance.

Insurance 412.

PRINCIPLES OF LIFE INSURANCE AND ESTATE PLANNING

3 credits

A complete analysis of life insurance contracts; fundamental legal concept; rate making; construction of mortality tables and reserves; insured pension funds; tax and estate planning.

MARKETING

GEORGE R. SWOYER, L.H.D., *Chairman*
Associate Professors: McCloskey, Reifsteck, Swoyer
Instructor: Tague

FIRST YEAR

Fall		Spring		
114	Theology A Elective	3	Philosophy 107	3
	Accounting 101	3	Accounting 102	3
	Economics 111	3	Economics 112	3
	English 101	3	English 102	3
	History A Elective	3	History A Elective	3
		<hr/>		<hr/>
	15		15	

SECOND YEAR

<i>Fall</i>		<i>Spring</i>	
Theology B Elective	3	Philosophy 206	3
English 205	3	English 206	3
Mathematics or		Mathematics or	
Science Option	3 or 4	Science Option	3 or 4
Marketing 201	3	Marketing 202	3
Business Law 201	2	Business Law 202	2
	<hr/>		<hr/>
	14 or 15		14 or 15

THIRD YEAR

<i>Fall</i>		<i>Spring</i>	
Theology C Elective	3	Philosophy 305	3
Economics 313	3	Industry 317	4
Finance 201	3	Finance 202	3
Marketing 304	3	Marketing 305	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		16

FOURTH YEAR

Fall

Psychology 101	3
Marketing 400	3
Marketing 402	3
Electives	6
	—
	15

Spring

Philosophy Elective	3
Fine Arts Elective	3
Marketing 401	3
Marketing 410	3
Elective	3
	—
	15

Marketing 201-202.

PRINCIPLES OF MARKETING

3-6 credits

Traces process by which goods get from producer to consumer. Discussion of role of middleman, markets, trade channels, and other critical areas of distribution.

Marketing 304.

PERSONAL SELLING

3 credits

The development, importance and practice of individual selling in the economy. Consideration is given to sales personality, the phases of a sales presentation, types of buyers and ethics in salesmanship.

Marketing 305.

SALES ADMINISTRATION

3 credits

The activities of a sales administrator in directing and controlling a sales force: the recruiting, selecting, training, compensating, motivating and supervising of salesmen; establishment of sales territories, quotas and budgets.

Marketing 400-401.

MARKETING RESEARCH

3-6 credits

The use of scientific method in the solution of specific marketing problems and in the conduct of general market research studies: methods of marketing research, gathering data, tabulation and analysis, interpretation of results and report presentation.

Marketing 402.

ADVERTISING

3 credits

The role of advertising in the economy, planning the advertising campaign, physical production of the advertisement, a comparison of the various media, and the functions of an advertising agency.

Marketing 410.

MARKETING MANAGEMENT

3 credits

Integrates all other marketing courses. Study of actual cases encourages development of management capacity and ability to make decisions based on factual analysis. For seniors only.

Directory

College Administration

BOARD OF TRUSTEES

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G. DENNIS O'BRIEN, Ph.D.
BROTHER GREGORY NUGENT, F.S.C., Ph.D.
FRANCIS J. DUNLEAVY
BROTHER FRANCIS McLEAN, F.S.C., Ped.D.
BROTHER MARTIN J. FAHEY, F.S.C., M.A.
BROTHER COLMAN COOGAN, F.S.C., M.A.
H. BLAKE HAYMAN, M.D., LL.D.
JOHN F. CONNELLY, LL.D.
FRANCIS BRACELAND, M.D., Sc.D.
THEODORE H. MECKE, LL.D.
CHARLES MacDONALD GRACE, LL.D.
WILLIAM B. WALKER, M.B.A., LL.B.
BROTHER JEREMY McNAMARA, F.S.C., M.A.
SAMUEL P. MANDELL
JOHN McSHAIN, Sc.D., *Emeritus*
JOSEPH SCHMITZ, JR., Sc.D., *Emeritus*
JOSEPH B. QUINN, ESQ., LL.D., *Legal Adviser*
JOSEPH J. SPRISLER, D.C.S., *Financial Adviser*

OFFICERS OF THE CORPORATION

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BROTHER DANIEL BURKE, F.S.C., *President*
BROTHER F. PATRICK ELLIS, F.S.C., *Vice-President*
JOHN S. PENNY, Ph.D., *Secretary*

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Br. Daniel Burke
Mr. Theodore Mecke
Dr. Dennis O'Brien
Mr. William Walker

Academic Affairs:

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Dr. Bruce Baldwin
Br. Francis McLean
Br. Colman Coogan

Finance:

Mr. William Walker
 Mr. Charles Grace
 Dr. H. Blake Hayman
 Br. Martin Fahey
 Mr. Samuel Mandell

Student Affairs:

Dr. Dennis O'Brien
 Dr. Francis Braceland
 Mr. Francis Dunleavy
 Br. Jeremy McNamara

Nominating:

Br. Daniel Burke
 Mr. John Connelly
 Br. Gregory Nugent

President BROTHER DANIEL BURKE, F.S.C., Ph.D.
Assistant to the President BROTHER NICHOLAS SULLIVAN, F.S.C., Ph.D.

ACADEMIC AFFAIRS ADMINISTRATION

Vice-President, Academic Affairs

BROTHER EMERY C. MOLLENHAUER, F.S.C., Ph.D.

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Dean of Business Administration BRUCE V. MacLEOD, Ph.D.

Dean of the Evening Division THOMAS M. COFFEE, Ph.D.

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Student Affairs

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Student Development

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Faculty-Student Judiciary

Membership includes six faculty members and nine students.

The Faculty Senate

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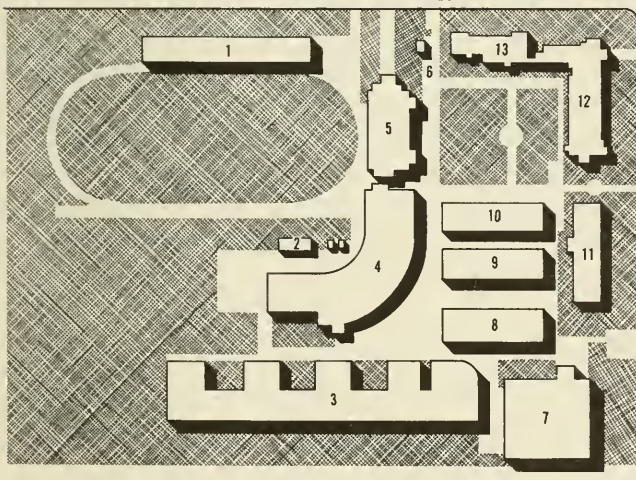
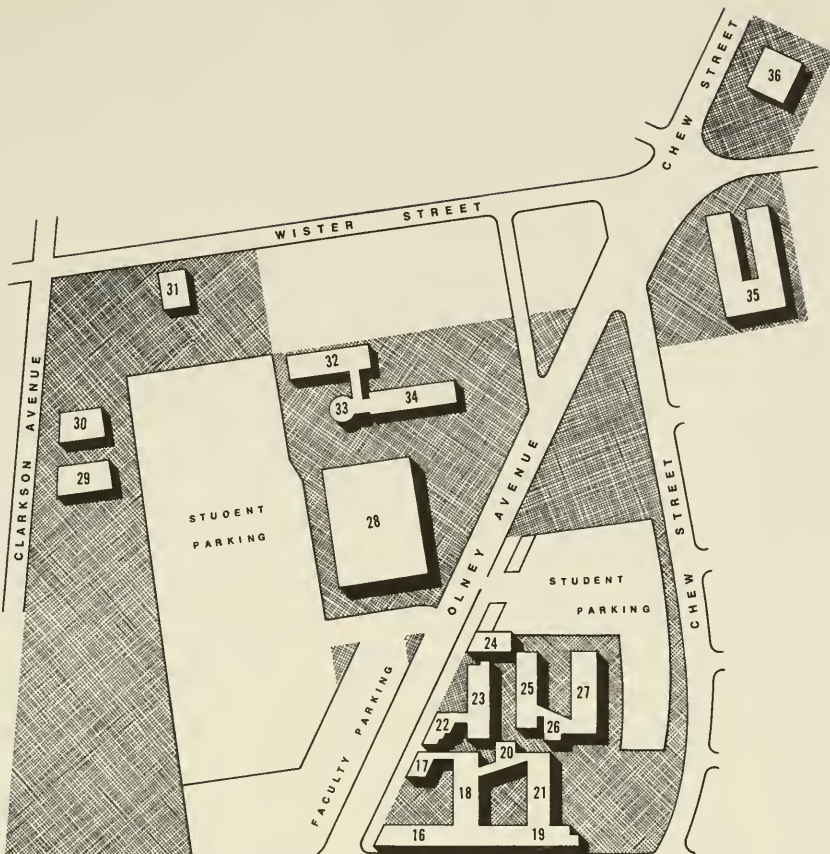
FALL SEMESTER

Aug. 31 to Sept. 4	Registration for upperclassmen
Sept. 2	Freshmen residents report
Sept. 3-4	Orientation and registration for freshmen
Sept. 8	Beginning of classes
Nov. 1	Honors Convocation
Nov. 26-27	Thanksgiving holidays
Dec. 15-22	Final examinations

SPRING SEMESTER

Jan. 12-15	Registration
Jan. 18	Beginning of classes
April 8	Easter vacation begins 4:30 P.M.
April 19	Classes resume
May 3-10	Final examinations
May 16	Senior Reception
May 17	Baccalaureate Mass, Commencement

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